EXHIBIT B13 Part 2

Copy Produced by Plaintiffs Prior to Deposition

- Cell lines

5KOV-3

A2780

10V112D

EL-1/macrophages

ATCC,

ATCC

Normal ovarian epithelial

FT33

Cell Biologies, Chicago, IL

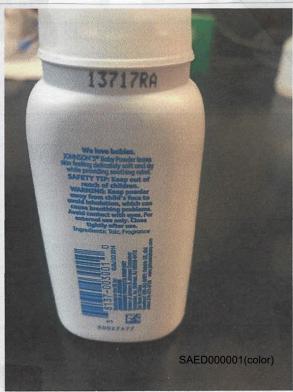
Applied Biological Moderials. Richmond, BC, an

Sigma Aldrich, St. Louis, MO) Akind gift from Gendeng Wa at Vluyne State Uni

Fetal bovine serum (FBS, Innovative Research, Nov:, MI)
Penicillin/streptomycin (Fisher Scientific)

- Johnson Baby Powder (#30027578 Lot#13717RA)





011 011 000	POR
Seeded Cells for P	CK Alace III E
1/24/18 - Th > CII	
- Thawing Cells	Media 100/ID/ 10/21/11/I
EL-1 (Macrophages)	IMDM C10% FBS, 1% PS, IML H-T)
SKOV-3	Mc Coy's SA (10% FBS, 1%PS)
70V1/2D	Medium 199: MCDB 105 (1:1) +10% FBS +1/2
A2780	RPM I - 1640 C10% FBS + 1%PS)
F733	DMEM CLOWFBS, 1% PS)
Normal Ovarian Epithelial	Complete Human Epithelial Cell Medium K
	Call Biologics)
75 and flat + 15 al l.	
75 cm² flask + 15 ml medium	
1 /20/10	
1/26/18 - Call Authors Call	
- Subculture Cells	
ONLY WITH DD (10.1	pithelial use trypsin from Sciencell
Quash with PBS Doml	
@ gently remove PBS	
3 Pipet trypsin-EDTA 2ml onto the	Washed Cells mono layer
@ 37° incapator 1 ~ 5 mirutes	(Skov-3 longer)
S Check under microscope	Sandard John TI Book
@ Add fresh medium &ml to	
1 Take 2ml to a new looming	
3 Add Sml Fresh median to 1001	nm dish
1 Incubate the cells	
Reserve est contine disparous incubator	
1/29/18	
- Subculture Cells	
PROUNTINE CENS	and rotate it to ensure scraning of sure
2ml cells + 8ml medium	100
DINC MENT DINC MENUM	LOU MIM VUSH
Cells doubled in One day.	Sim Exhibition was a lease to the second
der vonibled in one day.	SAED000002(color)

31

2/1/2018

- Subculture cells

- Seeded 1×106 cells 60mm dish + 5ml medium

Need dose for treatment with talc

Unt , 5 , 20 , 100 µg/ml

Sample ID	
356	EL1 Unt
357	EL1 5 ug/ml Talc
	EL1 20 ug/ml Talc
	EL1 100 ug/ml Talc
	SKOV-3 unt
361	SKOV-3 5ug/ml
362	SKOV-3 20ug/ml
363	SKOV-3 100ug/ml
364	TOV112 Unt
365	TOV112 5 ug/ml Talc
	TOV112 20 ug/ml Talc
	TOV112 100 ug/ml Talc
	A2780 Unt
369	A2780 5 ug/ml
370	A2780 20 ug/ml
371	A2780 100 ug/ml
379	FT33 unt
380	FT33 5ug/ml
381	FT33 20 ug/ml
382	FT33 100 ug/ml
383	NOE unt
384	NOE 5 ug/ml Talc
	NOE 20 ug/ml Talc
	NOE 100 ug/ml Talc

2/2/2018
- treat cell with talc
Prepare tale / Johnson Baby Powder (#20027578, lot 13717RA)
Joong tale t 10ml DMSO -> mix 10mg/ml = 10t ug/ml -Sterilization under UV light to avoid endotoxin and microphed Contamination - Powder loomy suspended in DMSO and passed 5 times through 22-gauge needle an 0-2ml syringe filter
$(7)(10^4 \text{ Ny/ml}) = (5\text{ml})(5\text{Ny/ml}) \longrightarrow 81 = 25\text{Nl}$
(7/2) (104 mg/ml) = (5 ml) (20 mg/ml) -> x2=10 ml
(73) (104 µg/ml) = (5ml) (100 µg/ml) -> ×3=50 M
2/5/208 - Collect Cells (See belove)
- RAA Extraction RAbasy Mini Kit (Qiagen cont #74106/go to Pg
- Detect concentration of RNA by Manadrop (go to pg 35) (Ge pentilic)
Put on gloves and spray with 70% ethanol Remove cell culture dish from incubator Observe cells under microscope. Move the dishes to your work bench, does not need to be done in the hood. Collect media and place in labeled 15ml tube for freezing, Add 10 ml PBS Using a cell scraper, scrape the bottom of the dish and rotate it to ensure scraping of entire Using a 10ml pipet, remove the PBS and cell mixture and place into the 15ml conical centrifugation tube that corresponds to the dish 1 ml for PNA and to the 15ml conical

centrifugation tube that corresponds to the dish, 1ml for RNA, 2ml for DNA,8 ml for protein

Close and centrifuge all tubes, 5 minutes at 1800rpm (slower speed keeps cells from breaking). Place another paper towel by sink, dump PBS from all tubes into sink and place tubes upside

down to drain them. Cells will be collected at the bottom. Place all tubes in Styrofoam holder

and place in -80°C freezer.

9738-1 Filed 05/07/19 Page 7 of 48 PageID: 40878 Case 3:16-md-02738 RNA Extraction RNeasy Mini Kit (Qiagen cat # 74106) Important Notes before starting: WORK IN THE HOOD β-Mercaptoethanol (β-ME) can be added to Buffer RLT (lysis buffer) before use. β-ME is toxic; dispense in a fume hood and wear appropriate protective clothing. Add 10 μl β-ME per 1 ml Buffer RLT. Buffer RLT is stable for one month after addition of β-ME. Buffer RPE is supplied as a concentrate. Before using for the first time, add ethanol as indicated on the bottle. Be sure to mark the lid with a X to show that the working solution has been prepared. Buffer RW1 and Buffer RLT are hazardous. Buffer RLT+ \(\beta \)-ME should be disposed of in the jar in the hood. Buffer RWI should be disposed of in the jar in the hood. Preparation of the Buffer RLT In a labeled 15ml centrifugation tube, add 10μl β-ME for every 1 ml Buffer RLT. Preparation of your samples 1. Add 350 μ l of the Buffer RLT + β -ME solution to each of your sample tubes. a. if you have a lot of cells, you will need to add 600 μl of Buffer RLT + β-ME solution to each tube ***also add equal volume of ethanol) 2. Add 350 ul of 70% ethanol to each tube and pipet to mix 3. Transfer the entire sample to its corresponding mini spin column a. Close columns and place them into the small centrifuge. b. Centrifuge the tubes for 15 seconds at 13,000 rpm 4. Dump the flow through into hazardous waste jar in the hood. Add 700µl of the Buffer RW1 to the RNeasy column a. Centrifuge 15 seconds at 13,000 rpm 6. Dump the flow through into hazardous waste jar in the hood Add 500µl of Buffer RPE onto each RNeasy column a. Centrifuge 15 seconds at 13,000 rpm Dump the flow through into waste jar Add 500µl Buffer RPE to each column again a. Centrifuge 2 minutes at 13,000 rpm to dry the silica gel membrane 10. Dump the flow through in waste jar, centrifuge for one minute more 11. Remove columns from collection tubes and place in corresponding 1.5ml centrifuge tube 12. Add 50µl of RNase-free water to each column, onto the center of the silica-gel membrane without touching the sides of the column (water dissolves RNA). a. Allow to stand for 1 minute b. Centrifuge columns for 1 minute at 13,000 rpm, LID MUST BE ON CENTRIFUGE 13. Collect flow through from the collection tube and place back into the column on the center of the membrane, allow to stand for 1 minute a. Centrifuge columns again for 1 minute at 13,000 rpm, LID MUST BE ON CENTRIFUGE 14. Remove and dispose of columns 15. Place your microcentrifuge tubes containing RNA on ice a. Detect concentration of RNA Good quality RNA has a A260/A280 of 2.0 NEED TO MEASURE RNA EACH TIME YOU GO TO MAKE cDNA

ciothing. Add 10 pl B-MR per I

lift with a X to show that the working solution has been propared

. Buffer RLT+ p-ME should be disposed of in the jar in the hood.

Transier the entire sample to its

Dump the flow through into he Add 700pl of the Buffer RWI

allow to stand for I minute

13. Collect flow through from the collection tube and p

15. Place your microcentriliage tubes containing RNA

lied as a concentrate. Defore using for the first tires, ad-

cDNA Synthesis via Reverse Transcription - VILO kit

You will need:

Ice

Thaw, on ice:

RNA

VILO MasterMix

RNase-free water

. If offer RWI should be disposed of in the jar in the hood. You must detect the concentration of your RNA. After doing this, you can an an in a source goal calculate the volume needed to get for a 1 µg reaction.

i.e. – If your RNA concentration is 0.9 ug/ul then:

 $(x \, ul)(0.9 \, ug/ul) = 1 \, ug$ solve for x

Add 350 ut of the Buffer RLT + p.ME solution to et For a single reaction, combine the following components in a sterile PCR tube on ice.

1 1740 CV	eponding mim spin column
- Ye	1 μg RNA
Component 5	Volume/reaction
VILO MasterMix	hood and at 4 µl
Template RNA	Variable up to 1 μg
RNase-free Water	Variable
Total Volume:	20 μΙ

Buffer RPE bato each RNeasy colu The total amount in each tube should equal 20 ul, hence the variable volume of water.

- Add 4 ul VILO MasterMix to each tube, volume of RNA calculated, volume of water calculated, and gently mix.
- Place the tubes in a rack and the rack into a 25°C water bath for 10 minutes.
- Place the rack into a 42°C water bath for 60 minutes.
- Then, place racked tubes into 85°C water bath for 5 minutes to terminate the reaction.
- Place samples on ice for a few minutes.
- Centrifuge cDNA.
- Place into -20°C freezer for storage or continue on to PCR.

RNA Concentration (Nanodrop)

Sample II		Date and Time	Nucleic Acid Conc.	Unit	A260	A280	260/280	260/230	Sample T
	EL1 Unt	2/5/2018 1:18:50 PM	0.083	µg/µl	2.074	1.109	1.87	1.3	RNA
	EL1 5 ug/ml Talc	2/5/2018 1:19:20 PM		µg/µl		1.342	1.86	1.18	RNA
	EL1 20 ug/ml Talc	2/5/2018 1:19:39 PM	0.0829	µg/µl	2.073	1.118	1.85	1.26	RNA
359	EL1 100 ug/ml Talc	2/5/2018 1:20:00 PM	0.0349	µg/µl	0.873	0.476	1.84	0.39	RNA
	SKOV-3 unt	2/5/2018 1:20:24 PM		µg/µl	5.968	2.966	2.01	0.78	RNA
361	SKOV-3 5ug/ml	2/5/2018 1:20:43 PM	0.3389	µg/µl	8.473	4.194	2.02	1.15	RNA
362	SKOV-3 20ug/ml	2/5/2018 1:21:04 PM		µg/µl	7.542	3.837	1.97	1.47	RNA
363	SKOV-3 100ug/ml	2/5/2018 1:21:20 PM		µg/µl	2.796	1.465	1.91	1.53	RNA
364	TOV112 Unt	2/16/2018 9:49:26 AM				2.879	2.09	1.78	RNA
	TOV112 5 ug/ml Talc			µg/µl	6.044	2.939	2.06	1.27	RNA
366	TOV112 20 ug/ml Talc	2/16/2018 9:50:01 AM				2.459	2.08	1.88	RNA
367	TOV112 100 ug/ml Tal	2/16/2018 9:50:16 AM		µg/µl	4.281	2.026	2.11	1.83	RNA
	A2780 Unt	2/5/2018 1:21:41 PM	0.2203	µg/µl	5.508	2.88	1.91	1.34	RNA
	A2780 5 ug/ml	2/5/2018 1:21:57 PM	0.2474	µg/µl	6.185	3.187	1.94	2.03	RNA
370	A2780 20 ug/ml	2/5/2018 1:22:12 PM	0.2217	µg/µl	5.541	2.855	1.94	1.63	RNA
371	A2780 100 ug/ml	2/5/2018 1:22:29 PM		µg/µl	3.34	1.726	1.93	1.42	RNA
379	FT33 unt	2/16/2018 9:27:37 AM		µg/µl	4.212	2.034	2.07	1.01	RNA
380	FT33 5ug/ml	2/16/2018 9:27:55 AM	0.0658	µg/µl	1.645	0.713	2.31	3.02	RNA
	FT33 20 ug/ml	2/16/2018 9:28:13 AM	0.0801	µg/µl	2.003	0.891	2.25	0.96	RNA
382	FT33 100 ug/ml	2/16/2018 9:28:30 AM	0.3084	µg/µl	7.711	3.759	2.05	2.24	RNA
	NOE unt	2/16/2018 9:28:51 AM	0.2921	µg/µl	7.303	3.582	2.04	1.09	RNA
	NOE 5 ug/ml Talc	2/16/2018 9:29:10 AM				2.179	2.08	2.15	RNA
385	NOE 20 ug/ml Talc	2/16/2018 9:29:29 AM				0.971	2.24	1.31	RNA
386	NOE 100 ug/ml Talc	2/16/2018 9:29:51 AM	0.0816			1.126	2.03	1.43	RNA

ug RNA F	ul RNA	
		ul water
356	6.0	10.0
357	5.0	11.0
358	6.0	10.0
359	14.3	1.7
360	2.1	13.9
361	1.5	14.5
362	1.7	14.3
363	4.5	11.5
364	2.1	13.9
365	2.1	13.9
366	2.4	13.6
367	2.9	13.1
368	2.3	13.7
369	2.0	14.0
370	2.3	13.7
371	3.7	12.3
379	3.0	13.0
380	7.6	8.4
381	6.2	9.8
382	1.6	14.4
383	1.7	14.3
384	2.8	13.2
385	5.8	10.2
386	6.3	9.7

O.S.My RNA was obtained from each sample following dilution as described by this table.

CDNA (2011) prepared

SAED000007(color)

Case 3:16-md-02738-MAS-RLS Document 9738-1 Filed 05/07/19 Page 10 of 48 PageID: 40881

2/19/2018 PCR for B-actin

B-actin test — Standard

- Aliquot Standard

Standard come desiccated

Reconstitute with TE buffer.

All TE buffer such that the concentration will be 100 mM

The volume of TE buffer is on the product sheet

Mix nell

In a new h5ml microtube, add 5ml of standard to each tube

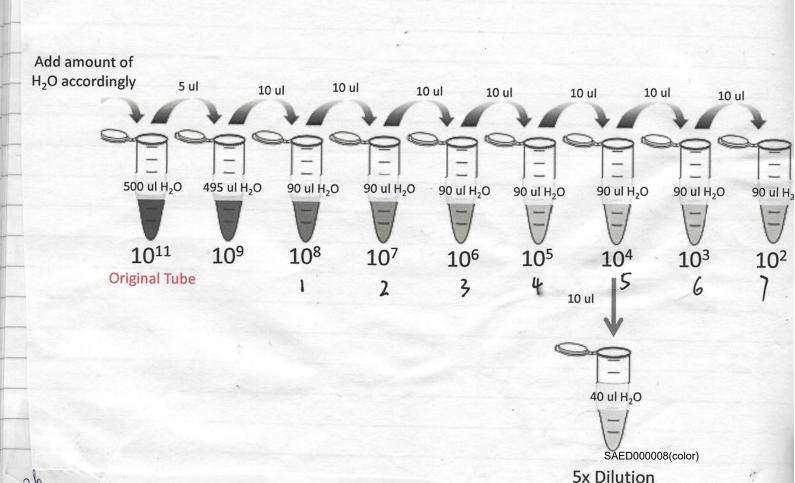
Put tubes into the concentrator machine for 20 minutes — Lids open

Then close tubes, and label

X. Ald 500 ml PCR water to get a standard that is 1011

Serial Dilution of Standard

Place samples on ice after mixing



	Case 3:16-md-02738-MAS-RLS Document 9738-1 Filed 05/07/19 Page 11 of 48 PageID: 40882
	2/19/208
	Run B-actin with samples 356 ~ 386
	- Do 25, Ml reaction
	Water 9.5 M Primer Forward Inl Primer Reverse Inl SYBR Green 12.5 ML (Radiant Green Lo-ROX gPCR Kit #QS10.8 20x dilution Sample (eDNA) Inl
	- Cal culorling Mastermix for samples 72 Samples + 1 blank = 73 73 × 1:17 extra = 85.41
	- Masternis calculation
	Water = 9.5 ×85.41 = 811.395 ≈811.4 ml
	primer = 1 x85.41 = 85.4 ml
=	SYBR green = 12.5 x 85.41 = 1067.625 = 1067.6 ML
	- Mix then take 80.6 of this mix -> 1.5 ml tube 1 per sample - Add 3.4 ml Sample to 1.5 ml tube containing mastermix 3x1.12 extra = 34 ml
-	- Mix well, add 25 Ml -> PCR tube.
	3 total per sample

2/19/2018 Run B-actin with Samples 356-386

	ın Summary (Smart Cycler				-	10.0			y = -0.2232x + 1	STORY VILLEGE
	ın Name:	bactin 1ul 10x B-actin Standard RADIAN	T SVRP			10.0 0 5.0 9 0.0		* *	$R^2 = 0.9925$	5
	d Curve:	2/19/2018 10:20	I SYBR		-	80 5.0			***	
Ţ	umber of Sites:	72		an and the same of		3 0.0 +	1	1	1 1	-
	esults Table					0	10	20 (t 30 40	50
	ite ID	Protocol	Sample ID	Sample Type	Notes	Status	FAM Std/Res	FAM Ct	Melt Peak1	Y=Log Co
	8	64-10	8	STD		OK	610000000	12.22	79.62 79.86	
	9	64-10		STD		OK OK	61000000 6100000	14.33 19.34	79.87	6.8
	10	64-10		STD		OK	610000	23.46	79.84	5.8
	nz	64-10	4	810		OK	61000	29.09	79.92	4.8
	/13	64-10		STD		OK	6100	32.81	80.08 80.41	3.8
)14	64-10		STD		OK	610	38.16 25.68	79.46	
	1	b-Actin Radiant SYBR 20			-	OK	285995.18	25.76	79.72	
	12	b-Actin Radiant SYBR 20		UNKN	-	OK OK	273439.209 409589.891	24.98	79.72	
	\3	b-Actin Radiant SYBR 20		UNKN	-	OK	387206.6	25.09	79.77	
	<u>X</u>	b-Actin Radiant SYBR 20 b-Actin Radiant SYBR 20		UNKN		ОК	367150.863	25.19	79.65	
	25 26	b-Actin Radiant SYBR 20		UNKN	+	ОК	378655.448	25.13	79.78	
	A7	b-Actin Radiant SYBR 20		UNKN		ОК	230002.825	26.1	79.81	
	48	b-Actin Radiant SYBR 20		UNKN	100	ок	274451.794	25.76	79.79	
	49	b-Actin Radiant SYBR 20		UNKN		ОК	204423.921	26.33	79.5	
	A10	b-Actin Radiant SYBR 20		UNKN		ок	99410.671	27.73	79.7	
	A11	b-Actin Radiant SYBR 20		UNKN		ок	95098.867	27.82	79.69	-
	A12	b-Actin Radiant SYBR 20		UNKN		ОК	106962.324	27.59	79.93	
	A13	b-Actin Radiant SYBR 20	360	UNKN		ОК	82004.156	28.11	79.65	
	A14	b-Actin Radiant SYBR 20	17	UNKN		ОК	76218.669	28.25	79.68	-
	A15	b-Actin Radiant SYBR 20	7	UNKN		ОК	80210.088	28.15	79.73	-
	A16	b-Actin Radiant SYBR 20	-			ОК	74149.095	28.3	79.69	
	B1	b-Actin Radiant SYBR 20		UNKN		OK	83584.072	28.07	79.9 79.66	-
	B2	b-Actin Radiant SYBR 20	7	UNKN	-	OK	35471.637	29.74	79.66	-
	B3	b-Actin Radiant SYBR 20		UNKN		OK	67751.744	28.48	79.73	
	B4	b-Actin Radiant SYBR 20		UNKN	-	ОК	81687.724 100652.72	27.71	79.71	-
	B5	b-Actin Radiant SYBR 20		UNKN		OK OK	77232.773	28.22	79.88	-
ŀ	B6	b-Actin Radiant SYBR 20 b-Actin Radiant SYBR 20	The second second	UNKN		ОК	73843.031	28.31	79.65	-
H	B7 B8	b-Actin Radiant SYBR 20		UNKN		ОК	74279.769	28.3	79.85	
H	В9	b-Actin Radiant SYBR 20				ОК	78048.375	28.2	79.75	5
ŀ	B10	b-Actin Radiant SYBR 20		UNKN		ОК	75382.275	28.27	79.89	
ŀ	B11	b-Actin Radiant SYBR 20		UNKN		ОК	67421.281	28.49	79.75	5
ŀ	B12	b-Actin Radiant SYBR 20	7	UNKN		ок	91845.321	27.89	79.95	5
	B13	b-Actin Radiant SYBR 20	The second secon	UNKN	EI STATE OF THE ST	ОК	92266.631	27.88	79.7	7
	B14	b-Actin Radiant SYBR 20)17	UNKN		ОК	63374.184	28.61	79.77	7
	B15	b-Actin Radiant SYBR 20	366	UNKN		ОК	41817.434	29.42	79.64	-
	B16	b-Actin Radiant SYBR 20)17	UNKN		ОК	49354.598	29.1	79.77	-
	C1	b-Actin Radiant SYBR 20	017	UNKN		ОК	65999.285		79.95	
	C2	b-Actin Radiant SYBR 20	367	UNKN		ОК	91668.153	27.89	79.92	
	C3	b-Actin Radiant SYBR 20		UNKN		ОК	107294.783	1	79.68	
	C4	b-Actin Radiant SYBR 20	1	UNKN		ОК	110651.012	27.52	79.89	-
	C5	b-Actin Radiant SYBR 20		UNKN		OK	89094.02		79.70	
	C6	b-Actin Radiant SYBR 20		UNKN		ОК	77572.459		79.83	
	C7	b-Actin Radiant SYBR 20		UNKN		OK	138914.317		79.87	
	C7	b-Actin Radiant SYBR 20		UNKN		OK OK	22379.944		79.83	
	C8	b-Actin Radiant SYBR 20		UNKN		OK	198224.635		79.72	_
	C9	b-Actin Radiant SYBR 20 b-Actin Radiant SYBR 20		UNKN		OK	132819.388	-	79.70	
	C11 C12	b-Actin Radiant SYBR 20		UNKN		ОК	100097.61		79.7	
	C12	b-Actin Radiant SYBR 20		UNKN		ОК	46360.317		79.6	_
	C10	b-Actin Radiant SYBR 20		UNKN		ОК	184842.26		79.6	3
	C11	b-Actin Radiant SYBR 20		UNKN		ОК	202714.758		79.7	2
	C12	b-Actin Radiant SYBR 20		UNKN		ОК	108192.324	27.57	79.8	-
ŀ	A1	b-Actin Radiant SYBR 20	7	UNKN		OK	307932.328			-
	A2	b-Actin Radiant SYBR 20	017	UNKN		ОК	377133.607			
1	A3	b-Actin Radiant SYBR 20	7	UNKN		ОК	542309.187			
-	A4	b-Actin Radiant SYBR 20		UNKN		ОК	315038.876			-
1	A5	b-Actin Radiant SYBR 2		UNKN		OK	251730.241			_
ъ	A6	b-Actin Radiant SYBR 2	- T	UNKN		OK	310158.171			
	A7	b-Actin Radiant SYBR 2		1 UNKN		OK	328994.514	THE RESERVE OF THE PARTY OF THE		
1	A8	b-Actin Radiant SYBR 2		UNKN		ОК	296610.661 271028.804	-		
	A9	b-Actin Radiant SYBR 2		UNKN 2 UNKN		OK OK	202182.58			-
1	A10	b-Actin Radiant SYBR 2 b-Actin Radiant SYBR 2		UNKN	G1 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	OK	176291.01	-		-
	A11	b-Actin Radiant SYBR 2		UNKN		ОК	204290.69			-
	A12 A13	b-Actin Radiant SYBR 2		3 UNKN		ок	188116.97			
	A14	b-Actin Radiant SYBR 2		UNKN		ок	176951.812			1
	A15	b-Actin Radiant SYBR 2		UNKN		ок	185011.186	26.52		
-	A16	b-Actin Radiant SYBR 2		4 UNKN		ОК	128937.209			
п	B1	b-Actin Radiant SYBR 2		UNKN		ОК	128406.079			
-	B2	b-Actin Radiant SYBR 2		UNKN		ОК	74621.79			_
	B3	b-Actin Radiant SYBR 2	0 38	5 UNKN		ОК	115595.38	Commence of the Commence of th		
	B4	b-Actin Radiant SYBR 2	017	UNKN		ок	160609.19		CALDOOOOAO/I-	
1	85	b-Actin Radiant SYBR 2	the same of the sa	UNKN		ОК	172272.15			
1	B6	b-Actin Radiant SYBR 2	38	6 UNKN		OK	96396.1			
1	B7	b-Actin Radiant SYBR 2		UNKN		OK	78347.73			
r	08	b-Actin Radiant SYBR 2	2017	UNKN		OK	77149.19	8 28.2	79.7	0

on# Gene	ATGACTTAGT	Sequ	ence	IGACAA/	ACCTA		384 Fwd Prin	ner	Rev Pr	imer	Standar Length			rt Po
A	ACTTGCGCAG	AAAACAAGA	TGAGATTO	GGCATG	GCTTTA	ATGAC	TTAGTT	GCGTTAC AATA	AACCCA	TOCOMATOT	70			
	Ce	Uculation	m o	lata		Mode	HAUTI	OCOTTAÇANA	AAGCCA	Initial tie	77777	time 1	Anneal time (s) nd Temp	ext
			1.0<		-MAF-Y	NOC		ABW		60	1	5	10, 58	3
ene of Interest		B-actin	Unit	Formula										
Dalton - 1.66E-24 grams ass of base pair	s	1.66E-24 615	g Da											
vg. Mass/base		305.25	Da											
ength of entire gene ass in Daltons		79	bases											-
ass in grams		2.41E+04 4.00E-20	B		bases x avg. Da x mass o	mass/base f a Da in grai	ms							
ass in ug ass in ng		4.00E-14 4.00E-11	ng/copy	- above /] - above x l										
19/2018 10:20														
0	Sample	Copy#	ul cDNA	copies/ul	ug RNA	ul cDNA	ug RNA/ul	coming/or DAVA	Dilution	Copies/ug RN	Ax pg/ug		1	
356 E	EL1 Unt	285995.18	used 1	cDNA 285995	used 0.5	made 20	cDNA 0.025	copies/ug RNA	Factor	Df	RNA	Avg	Normaliz	
1.90		273439.21 409589.89	1	273439 409590	0.5	20	0.025	1.14E+07 1.09E+07	10	1.14E+08 1.09E+08	4.58 4.38		1.0	3
357 E	EL1 5 ug/ml Talc	287206.6 267150.86	1 1	287207	0.5	20	0.025	1.64E+07 1.15E+07	10	1.64E+08 1.15E+08	6.56 4.60	4.45	1.0	2
350	El 1 20	278655.45	11	267151 278655	0.5	20 20	0.025 0.025	1.07E+07 1.11E+07	10	1.07E+08 1.11E+08	4.28			
330 E	EL1 20 ug/ml Talc	230002.83 274451.79	1	230003 274452	0.5	20 20	0.025 0.025	9.20E+06 1.10E+07	10 10	9.20E+07 1.10E+08	3.68 4.39	3.48	0.80	0
359 E	EL1 100 ug/ml Talc		1	204424 294105	0.5 0.5	20 20	0.025 0.025	8.18E+06 1.18E+07	10	8.18E+07 1.18E+08	3.27	4.36	1.00	0
		250982.87 246925.32	1	250983 246925	0.5 0.5	20 20	0.025	1.00E+07 9.88E+06	10	1.00E+08 9.88E+07	4.02	4.30	1.00	
360 S	KOV-3 Unt	82004.156 76218.669	1	82004.2 76218.7	0.5 0.5	20	0.025	3.28E+06 3.05E+06	10	3.28E+07	1.31	1.27	1.06	3
361 S	KOV-3 5 ug/ml	80210.088 74149.095	1	80210.1 74149.1	0.5	20	0.025	3.21E+06	10	3.05E+07 3.21E+07	1.22			
		83584.072 35471.637	1	83584.1	0.5	20	0.025 0.025	2.97E+06 3.34E+06	10	2.97E+07 3.34E+07	1.19	1.26	1.05	5
362 SI	KOV-3 20 ug/ml	67751.744	1	35471.6 67751.7	0.5	20	0.025 0.025	1.42E+06 2.71E+06	10	1.42E+07 2.71E+07	0.57 1.08	1.33	1.11	
		81687.724 100652.72	1	81687.7 100653	0.5	20	0.025	3.27E+06 4.03E+06	10 10	3.27E+07 4.03E+07	1.31			
363 S	KOV-3 100 ug/ml	77232.773 73843.031	1	77232.8 73843	0.5	20	0.025	3.09E+06 2.95E+06	10	3.09E+07 2.95E+07	1.24	1.20	1.00)
364 TO	OV112 Unt	74279.769 78048.375	1	74279.8 78048.4	0.5 0.5	20	0.025	2.97E+06 3.12E+06	10	2.97E+07 3.12E+07	1.19	100		
		75382.275 67421.281		75382.3 67421.3	0.5 0.5	20	0.025	3.02E+06	10	3.02E+07	1.25	1.24	1.69	
365 TC	OV112 5 ug/ml Tal	91845.321 92266.631	1	91845.3 92266.6	0.5	20	0.025	2.70E+06 3.67E+06	10	2.70E+07 3.67E+07	1.08	1.47	2.02	
366 TC	OV112 20 ug/ml T:	63374.184 41817.434	1	63374.2	0.5	20	0.025	3.69E+06 2.53E+06	10	3.69E+07 2.53E+07	1.48			-
	THE 20 agrille 1	49354.598	1	41817.4 49354.6	0.5	20	0.025 0.025	1.67E+06 1.97E+06	10	1.67E+07 1.97E+07	0.67	0.73	1.00	
367 TC	OV112 100 ug/ml	65999.285 91668.153	1	65999.3 91668.2	0.5	20	0.025	2.64E+06 3.67E+06	10	2.64E+07 3.67E+07	1.06	1.74	2.39	
		107294.78 110651.01	1	107295 110651	0.5	20	0.025	4.29E+06 4.43E+06	10	4.29E+07 4.43E+07	1.72		2.00	
368 A2	780 Unt	89094.02 77572.459	1	89094 77572.5	0.5	20	0.025	3.56E+06 3.10E+06	10	3.56E+07 3.10E+07	1.43	1.33	1.00	
369 A2	780 5 ug/ml	106760.88 138914.32		106761 138914	0.5	20	0.025 0.025	4.27E+06 5.56E+06	10	4.27E+07 5.56E+07	1.71	0.75		
		22379.944 198224.64	1 :	22379.9 198225	0.5	20	0.025	8.95E+05	10	8.95E+06	0.36	2.70	2.02	
370 A2	780 20 ug/ml	132819.39 100097.61	1	132819	0.5	20	0.025 0.025	7.93E+06 5.31E+06	10	7.93E+07 5.31E+07	3.17 2.13	1.86	1.40	
391 A27	780 100 ug/ml	46360.317 184842.26	1 4	46360.3 184842	0.5	20	0.025	4.00E+06 1.85E+06	10	4.00E+07 1.85E+07	1.60 0.74			
		202714.76 108192.32	1	202715	0.5	20	0.025	7.39E+06 8.11E+06	10	7.39E+07 8.11E+07	2.96 3.25	3,10	2.33	
379 FT3	33 unt	307932.33 377133.61	1 :	307932	0.5	20	0.025	4.33E+06 1.23E+07	10	4.33E+07 1.23E+08	1.73 4.93	5.48	1.26	
200	22.5	542309.19	1 !	377134 542309	0.5	20	0.025 0.025	1.51E+07 2.17E+07	10 10	1.51E+08 2.17E+08	6.04 8.68			
380 FT3	33 5ug/ml	315038.88 251730.24	1 2	315039 251730	0.5	20	0.025 0.025	1.26E+07 1.01E+07	10	1.26E+08 1.01E+08	5.04	4.54	1.04	
381 FT3	33 20ug/ml	310158.17 328994.51		310158 328995	0.5	20	0.025	1.24E+07 1.32E+07	10	1.24E+08 1.32E+08	4.97	151		
		296610.66 271028.8	1 2	296611 271029	0.5	20	0.025	1.19E+07 1.08E+07	10	1.19E+08	5.27 4.75	4.54	1.04	
382 FT3		202182.58 176291.01	1 2	202183	0.5	20	0.025	8.09E+06	10	1.08E+08 8.09E+07	4.34 3.24	3.25	2.71	
383 NOE		204290.69 188116.97	1 2	204291	0.5	20	0.025	7.05E+06 8.17E+06	10	7.05E+07 8.17E+07	2.82 3.27			
300 1101		176951.81	1 1	188117 176952	0.5	20	0.025 0.025	7.52E+06 7.08E+06	10 10	7.52E+07 7.08E+07	3.01 2.83	2.94	2.44	
384 NOE	E 5ug/ml	185011.19 128937.21	1 1	85011 28937	0.5	20	0.025	7.40E+06 5.16E+06	10	7.40E+07 5.16E+07	2.96 2.06	2.06	1.71	
		128406.08 74621.79	1 7	28406 4621.8	0.5	20	0.025	5.14E+06 2.98E+06	10	5.14E+07 2.98E+07	2.06	2.00	1,(1)	
385 NOE		115595.39 160609.2	1 1	15595 60609	0.5	20	0.025 0.025	4.62E+06 6.42E+06	10	4.62E+07 6.42E+07	1.85	2.67	2.00	
386 NOE	100 ug/ml	172272.15 96396.19	1 1	72272 6396.2	0.5	20	0.025	6.89E+06	10	6.89E+07	2.57	0.55		
		78347.732 77149.198	1 78	8347.7 7149.2	0.1856 0.1856	20 0	.00928	1.04E+07 8.44E+06	10	1.04E+08 8.44E+07	4.16 3.38	3.35	2.51	
					0.1000	20 0	00928	8.31E+06	10	8.31E+07	3.33	000011		

2/19/2018 Run gPCR CAT with samples 356 ~ 386

	-	rimer in	V			1								
ccession # M_001852	Gene	GGTTGAACAGA	Seque	nce	ACATOGOAS	Fwd P	rimer		Rev Prime	r	Standard Length	Product /Amplico n Length	Start Pos	ition
rdered eb 2015	CAT	CTGGCATTGAGG CGCCTTTTTGCC	GCCAGTCCTC	ACAAAATG	CTTCAGGGC									
		199011111000	TATECTOAC	ACTCACCG		GGTTGAACAG	ATAGCCT	TC CGG	STGAGTGTCAG	GATAG	105	105		1073
A	1);								Initial tir (s) at 95			(s) time	
					R	aw	da	ta		60	15	10, (50 30,	,72
	Run Summa	ary (Smart Cycler 2.0d)						10.0						,
	Run Name:	CAT 356-370 3ul 10x CAT Standard RADIANT SYBR 2/19/2018 14:30						8.0 60 60 4.0 2.0	y = 0.2349x + 11.282 $R^2 = 0.9913$	•	•			
	Results Tab							0.0	10	20	30 40			
398	Site ID	Protocol 67-10	Sample ID	Sample Type STD	Notes Status OK	FAM Std/Re 606000000	FAM Ct Cy	3 Std/Res 0	Cy3 Ct TxR Std/f	Res 0	TxR Ct 0	Cy5	Ct Melt Peak 0 85.4	1 Y=Log (
	C16	67-10	7	STD	ОК	60600000 6060000.5	13.94	0	0 23.83	0	0		0 85.3 0 85.4	18 7
		67-10 67-10	5	STD	OK OK	606000	18.73 22.55	0	29.61	0	0		0 85.4	13 5
		67-10 67-10		STD	OK OK	60600 6060	27.97 32.1	0	32.92 37.43	0	0		0 85.4	
	D5	67-10	2	STD	OK	606	36.4	0	0	0	0		0 85.7	4 2
		CAT - RADIANT SYBR 2017 CAT - RADIANT SYBR 2017	356	UNKN	OK OK	17855.978 16139.221		17678.93714 15950.97166	0 ND 0 ND		0		0 85.4	
	A4	CAT - RADIANT SYBR 2017		UNKN	OK	4915.959	32.32	4874.36504	0 ND		0		0 85.4	19
		CAT - RADIANT SYBR 2017 CAT - RADIANT SYBR 2017	357	UNKN	OK OK	12459.444 10272.547		12400.50223	0 ND 0 ND		0		0 85.3	
	A7	CAT - RADIANT SYBR 2017 CAT - RADIANT SYBR 2017	250	UNKN	ОК	14937.016 80205.3		14786.76386 7985.839205	0 ND		0		0 85.3 0 85.4	
	A9	CAT - RADIANT SYBR 2017	336	UNKN	ОК	8563.013	31.29	8521.143499	0 ND		0		0 85.1	9
	A10 A11	CAT - RADIANT SYBR 2017 CAT - RADIANT SYBR 2017	359	UNKN	OK OK	7784.922 5724.962		7746.542868 5695.992993	0 ND		0		0 85.1	
	A12	CAT - RADIANT SYBR 2017		UNKN	OK	5383.508	32.15	5356.12657	0 ND		0		0 85.5	6
		CAT - RADIANT SYBR 2017 CAT - RADIANT SYBR 2017	360	UNKN	OK OK	4531.314 1178.499	32.47 30.79	4494.20671 11125.10317	0 ND 0 ND		0		0 85.5 0 85.4	14
		CAT - RADIANT SYBR 2017 CAT - RADIANT SYBR 2017		UNKN	OK OK	1030.117 1112.669		10081.30627 10103.75917	0 ND 0 ND		0		0 85.4	
	B1	CAT - RADIANT SYBR 2017	361	UNKN	OK	1720.575	35.87	713.3668093	0 ND		0		0 85.6	9
		CAT - RADIANT SYBR 2017 CAT - RADIANT SYBR 2017		UNKN	OK OK	1536.288 1454.544	36.42 38.72	529.6730491 152.502786	0 ND 0 ND		0		0 85.6 0 85.6	5
	B4	CAT - RADIANT SYBR 2017	362	UNKN	OK	988.97 892.134	35.29	976.4970234	0 ND 0 ND		0		0 85.5 0 85.6	51
	B6	CAT - RADIANT SYBR 2017 CAT - RADIANT SYBR 2017		UNKN	OK OK	743.008	37.24	583.8830707 339.8019296	0 ND		0		0 85.7	1
	87 88	CAT - RADIANT SYBR 2017 CAT - RADIANT SYBR 2017	363	UNKN	OK OK	930.122 891,701		920.0467999 881.0527594	0 ND		0		0 85.5 0 85.4	
3/1-1	B9	CAT - RADIANT SYBR 2017		UNKN	OK	917.542	38.60	162.738303	0 ND		0		0 85.5	66
	B10 B11	CAT - RADIANT SYBR 2017 CAT - RADIANT SYBR 2017	364	UNKN	OK OK	9774.808 8772.54		9727.561428 8729.735841	0 ND 0 ND		0		0 85.7 0 85.5	51
	B12 B13	CAT - RADIANT SYBR 2017 CAT - RADIANT SYBR 2017	200	UNKN	OK OK	7079.596 6450.657	31.64	7044.40926 6418.341978	0 ND 0 ND		0		0 85.6 0 85.5	
	B14	CAT - RADIANT SYBR 2017	303	UNKN	OK	6345.112	31.84	6313.281374	O ND		0		0 85.7	3
	B15 B16	CAT - RADIANT SYBR 2017 CAT - RADIANT SYBR 2017	366	UNKN	OK OK	6548.981 4356.817		6516.215381 4334.267044	0 ND 0 ND		0		0 63.9	
	C1	CAT - RADIANT SYBR 2017		UNKN	OK	4125.06	32.64	4103.614077	0 ND		0		0 85.6	7
	C2 C4	CAT - RADIANT SYBR 2017 CAT - RADIANT SYBR 2017	357	UNKN	OK OK	4205.28 470.667	32.60 30.59	4183.45132 12400.50223	0 ND 0 ND		0		0 85.8 0 85.6	
	C5	CAT - RADIANT SYBR 2017		UNKN	OK	269.742	30.96	10177.80459	0 ND		0		0 85.5	57
		CAT - RADIANT SYBR 2017 CAT - RADIANT SYBR 2017	368	UNKN	OK OK	832.75 13187.089		14786.76386 13125.02211	0 ND 0 ND		0		0 85.7	5
	C8	CAT - RADIANT SYBR 2017		UNKN	OK	11210.87	30.79	11157.33328	O ND		0		0 85.5 0 85.7	
		CAT - RADIANT SYBR 2017 CAT - RADIANT SYBR 2017	369	UNKN	OK OK	12105.843 7785.982		12048.42634 7747.598091	0 ND 0 ND		0		0 85.6	6
	C11	CAT - RADIANT SYBR 2017		UNKN	OK	9185.252 8973.241		9140.612972 8929.543543	0 ND	2700	0		0 85.5 0 85.5	
		CAT - RADIANT SYBR 2017 CAT - RADIANT SYBR 2017	370	UNKN	OK OK	6524.891		6492.235722	0 ND		0		0 85.6	51
		CAT - RADIANT SYBR 2017		UNKN	OK	5247.982		5221.233205	0 ND	No. of the last	0		0 85,6	36

2/19/2018 Run gPCR CAT with samples 356~386

	M	imer into)											
ession # _001852	Gene	GGTTGAACAGAT	Sequence AGCCTTCGACCCA/	AGCAACATGCCA		d Prim	er	R	ev Prime	er	Standard Length	/Amplic n Lengt	0	rt Positio
2015	CAT	CTGGCATTGAGG	CCAGTCCTGACAA/ ATCCTGACACTCA	AATGCTTCAGGG	GGTTGAAC	AGATA	GCCTTC	CGGTGA	GTGTCAG	GATAG	105	105		107
										Initial ti	me Melt ti		neal	extensio
	特				1		1.			(s) at 95			e (s) Temp	time (s)
					Law	(dato	\		60	15	10,	60	30,72
	Run Summary					_	H .	10.0				F)
		T 356-370 3ul 10x T Standard RADIANT SYBR 2/19/2018 14:30 52					log Copy	6.0 4.0 2.0 0.0	0.2349x + 11.282 R ² = 0.9913	•	•			
	Results Table	tocol 3	Sample ID Sample Ty	/pe Notes Statu		I/Re FAM		0	10 TxR Std		30 40 TxR Ct	c		Melt Peak1 Y=
	C15 67- C16 67- D1 67-	10	8 STD 7 STD 6 STD	OK OK OK	606000 606000 606000	000	12.2 13.94 18.73	0 0	0 23.83	0	0		0	85.45 85.38 85.46
	D2 67- D3 67- D4 67-	10	5 STD 4 STD 3 STD	OK OK	6	600 060	22.55 27.97 32.1	0 0	29.61 32.92 37.43	0	0		0 0	85.43 85.47 85.61 85.74
	A3 CA	T - RADIANT SYBR 2017 T - RADIANT SYBR 2017	2 STD 356 UNKN UNKN	OK OK	17855. 16139.	221	36.4 29.94 17678. 30.13 15960.	97166	0 ND 0 ND	0	0		0	85.43 85.56 85.49
	A5 CA	T - RADIANT SYBR 2017 T - RADIANT SYBR 2017 T - RADIANT SYBR 2017	UNKN 357 UNKN UNKN	OK OK	4915 12459 10272	444 547	32.32 4874. 30.59 12400. 30.96 10177.	50223 30459	0 ND 0 ND 0 ND		0		0 0	85.36 85.43 85.33
	AB CA	T - RADIANT SYBR 2017 T - RADIANT SYBR 2017 T - RADIANT SYBR 2017	UNKN 358 UNKN UNKN	OK OK OK	14937 8020 8563	05.3 013	30.27 14786. 31.41 7985.8 31.29 8521.1	39205 43499	0 ND 0 ND 0 ND 0 ND		0 0		0	85.49 85.19 85.15
	A11 CA A12 CA	T - RADIANT SYBR 2017 T - RADIANT SYBR 2017 T - RADIANT SYBR 2017	UNKN 359 UNKN UNKN	OK OK OK	7784 5724 5383 4531	962 508	31.46 7746.5 32.03 5695.9 32.15 5356. 32.47 4494	92993 12657	0 ND 0 ND 0 ND		0		0	85.3 85.56 85.51
	A14 CA A15 CA	T - RADIANT SYBR 2017 T - RADIANT SYBR 2017 T - RADIANT SYBR 2017 T - RADIANT SYBR 2017	UNKN 360 UNKN UNKN UNKN	OK OK OK	1178 1030 1112	499 117	30.79 11125. 30.98 10081. 30.97 10103.	10317 30627	0 ND 0 ND 0 ND		0		0 0	85.44 85.47 85.64
B	B1 CA B2 CA	T - RADIANT SYBR 2017 T - RADIANT SYBR 2017 T - RADIANT SYBR 2017 T - RADIANT SYBR 2017	361 UNKN UNKN UNKN	OK OK	1720 1536 1454	575 288	35.87 713.36 36.42 529.67 38.72 152.5	68093 30491	0 ND 0 ND 0 ND		0 0		0 0	85.69 85.7 85.65
7	B4 CA B5 CA	T - RADIANT SYBR 2017 T - RADIANT SYBR 2017 T - RADIANT SYBR 2017	362 UNKN UNKN UNKN	OK OK		8.97 .134	35.29 976.49 36.24 583.88 37.24 339.80	70234 30707	0 ND 0 ND 0 ND		0 0		0 0 0	85.51 85.65 85.71
	B7 CA	T - RADIANT SYBR 2017	363 UNKN UNKN	OK OK	930 891	701	35.40 920.04 35.48 881.05 38.60 162.7	27594	0 ND 0 ND 0 ND		0 0		0	85.51 85.47 85.56
Run Name Std Curve	cAT Standard	c371-397 RADIANT SYBR												
Started At Number of Results Ta	l .	2/19/2018 17:17 45												
Site ID C15 C16	Protocol 67-10 67-10	Sample ID	Sample Type 8 STD 7 STD	Notes Status OK OK	FAM Std/Re 606000000 60600000	32.52 32.63 32.56	Cy3 Std/Res	Cy3 Ct 16.9	TxR Std/Re	5 Tx	R Ct	Су	0	Melt Peak1 85.45
D1 D2 D3	67-10 67-10 67-10		6 STD 5 STD 4 STD	OK OK OK	6060000.5 606000 60600	36.35 35.99 36.00		23.0	83 61	0 0	0		0	85.38 85.46 85.43
D4 D5 A1	67-10 67-10 CAT - RADIAN	T SYBR 2017	3 STD 2 STD 371 UNKN	OK OK OK	6060 606 1532,565	30.24 30.22 34.47	1523.954788	37.4	0	0	0		0	85.47 85.61 85.74
A2 A3 A4	CAT - RADIANT CAT - RADIANT CAT - RADIANT	T SYBR 2017 T SYBR 2017	UNKN UNKN 379 UNKN	OK OK OK	1236.764 1250.345	34.86 34.84	1229.703382 1243.212628		0 ND 0 ND 0 ND		0		0 0	85.27 85.52 85.7
A5 A6 A7	CAT - RADIANT CAT - RADIANT	T SYBR 2017 T SYBR 2017	UNKN UNKN 380 UNKN	OK OK	13751.972 14752.394 15528.954	31.09 31.34 31.49			0 ND 0 ND 0 ND		0 0		0	85.53 85.48 85.32
A8 A9	CAT - RADIANT	T SYBR 2017 T SYBR 2017	UNKN	OK OK	12011.51 15456.092 14021.656	31.84 31.86 31.78	6312.993701 6257.764643 6523.18233		0 ND 0 ND 0 ND		0 0		0 0	85.46 85.32 85.15
A10 A11 A12	CAT - RADIANT CAT - RADIANT	T SYBR 2017 T SYBR 2017	381 UNKN UNKN UNKN	OK OK	9278.117 6741.24 5417.343	32.52 32.63 32.56	4375.630618 4123.440961 4277.101171		0 ND 0 ND 0 ND		0		0 0	85.52 85.4 85.3
A13 A14 A15	CAT - RADIANT CAT - RADIANT	T SYBR 2017 T SYBR 2017	382 UNKN UNKN UNKN	OK OK	11019.777 10563.774 9467.413	36,35 35,99 36,00	550.986046 668.9656621 664.9291676		0 ND 0 ND 0 ND		0 0		0 0	85.59 85.43 85.46
A16 B1 B2	CAT - RADIANT CAT - RADIANT	SYBR 2017 SYBR 2017	383 UNKN UNKN UNKN	OK OK	9763.023 8932.902 7723.593	30.24 30.22 30.20	15035.75313 15218.38365 15316.80267		0 ND 0 ND 0 ND		0		0	85.4 85.7 85.56
B3 B4 B5	CAT - RADIANT CAT - RADIANT CAT - RADIANT	SYBR 2017 SYBR 2017	384 UNKN UNKN UNKN	OK OK	4509.33 4792.009 3980.332	34.09 34.18 34.08	1866.845606 1779.286131 1876.663202		0 ND 0 ND 0 ND		0		0	85.66 85.14 85.61
86 87 88	CAT - RADIANT CAT - RADIANT CAT - RADIANT	SYBR 2017 SYBR 2017	385 UNKN UNKN UNKN	OK OK OK	14691.73 13688.861 12783.956	35.48 35.51 35.64	883.7826164 866.9833264 807.210783		0 ND 0 ND		0	000013(0	85.55 85.36
B9 B10 B11	CAT - RADIANT	SYBR 2017	386 UNKN UNKN UNKN	OK OK	11571.379 11580.693 12700.554	35.98 36.20 36.13	673.8852469 595.9832513		0 ND 0 ND 0 ND		0		0 0	85.7 85.56 85.66 85.48

Calculation data

Sene of	Interest	CAT	finit	Enough						uEL un	-1 eramal Ovarian					
Dalton	-1.66E-24 grams	1.66E-24	Unit	Formula			-	140.00		MET	33		CATALLY .			
	base pair	615	Da					¥ 120.00		WO	rerian Cancer (SKOV rarian Cancer (TOV)	12)				
g. Ma	ss/base	305.25	Da					100.00 80.00	- I I	MO	erian Cancer (A278	0)		-		-
ngth o	of entire gene	105	bases				-	5 60.00 ·	THI	J			-	-		-
	Daltons	3.21E+04	Da	- number b	ases x avg. mass/ba	ise		g- 40.00 -		a.si l	I I					
	grams	5.32E-20	g		x mass of a Da in	grams		\$ 20.00		Üz						
uss in u		5.32E-14 5.32E-11	ng/copy	- above / 10 - above x 10				0.00	Control	5 20	100	L -				1
	The second secon			MODIC A 10						Treatment (ug/mi,72 hours						
7-10																
)	Sample	Copy#	ul cDNA used	copies/ul cDNA	ug RNA used	ul cDNA made	RNA/ul cDNA	copies/ug RNA	Dilution Factor	Copies/ug RNA x Df	fg/ug RNA	Normalized	Avg	SD		
56	Unt	17760.287836	3	5920.1	0.5	20				2.37E+06	125.99	122.76	119.84	8.704227	Control	
-	EL1 Unt 72 hr	16025.072389 4899.480122	3	5341.69 1633.16	0.5	20		2.14E+05 6.53E+04		2.14E+06 6.53E+05	113.68 34.76			-		-
57	5 ug/ml	12459.444000	3	4153.15	0.5	20				1.66E+06	88.39	86.76	88,97	11,19823	5	
-	EL1 5 ug/ml Talc	10227.041070	3	3409.01	0.5	20	0.025	1.36E+05	10	1.36E+06	72.55					
	00	14855.935323	3	4951.98	0.5	20				1.98E+06	105.39	74.40	50.00			-
58	20 ug/ml EL1 20 ug/ml Talc	8025,300000 8563,013000	3 3	2675.1 2854.34	0.5	20				1.07E+06 1.14E+06	56.93 60.75	71.43	56.08	2.826264	20	+
		7784.922000	3	2594.97	0.5	20	0.025			1.04E+06	55.23					
59	100 ug/ml	5724.962000	3	1908.32	0.5	20				7,63E+05	40.61	40.61	39.40	4.415459	100	
	EL1 100 ug/ml Talc	5383.508000 4517.519127	3	1794.5 1505.84	0.5	20				7.18E+05 6.02E+05	38.19 32.05					+
33	Normal Ovarian Unt 72 hr	15105.982000	3	5035.33	0.5	20				2.01E+06	107.16	43.90	108.26	1.01598		-
		15289.387000	3	5096.46	0.5	20	0.025	2.04E+05	10	2.04E+06	108.46					
0.4	Fueled	15388.223000	3	5129.41	0.5	20				2.05E+06	109.16	7.77	42.00	0.00		-
84	5 ug/ml	1877.231000 1789.221000	3	625.744 596.407	0.5 0.5	20 20	0.025	2,50E+04 2,39E+04		2.50E+05 2.39E+05	13.32 12.69	7.77	13.00	0.382279		-
NO.		1887.099000	3	629.033	0.5	20				2.52E+05	13.39					
35	20 ug/ml	888.982000	3	296.327	0.5	20	0.025	1.19E+04	10	1.19E+05	6.31	3,16	6.08	0.287065		
		872.091000	3	290.697	0.5	20		1.16E+04		1.16E+05	6.19					-
36	100 ug/mi	811.991000 677.928000	3	270.664 225.976	0.5	20 20	0.025			1.08E+05 9.04E+04	5.76 4.81	1.91	4,49	0.392961		-
		599.590000	3	199.863	0.5	20				7.99E+04	4.01	1,01	4,43	0.002001	No liberation	
-		622.981000	3	207.66	0.5	20	0.025	8.31E+03	10	8.31E+04	4.42		-			
79	FT33 Unt 72 hr	9514.808000	3	3171.6	0.5	20	0.025	1.27E+05		1.27E+06	67.50	53.71	64.68	5,980631		-
-		8322.550000 7679.535000	3	2774.18 2559.85	0.5	20	0.025			1.11E+06 1.02E+06	59.04 54.48				-	-
80	5 ug/ml Talc	6344.823000	3	2114.94	0.5	20	0.025			8.46E+05	45.01	43.29	44.81	0.998061		
		6289.339000	3	2096.45	0.5	20	0.025	8.39E+04	10	8.39E+05	44.62					
0.4	On water! Tale	6555.980000	3	2185.33	0.5	20	0.025			8.74E+05	46.51		00.00			
81	20 ug/ml Talc	4398.378000 4144.982000	3 3	1466.13 1381.66	0.5	20	0.025	5.86E+04 5.53E+04		5.86E+05 5.53E+05	31.20 29.40	29.96	30.30	0.905928		-
		4299.378000	3	1433.13	0.5	20				5.73E+05	30.50					
82	100 ug/ml Talc	554.339000	3	184.78	0.5	20	0.025	7.39E+03	10	7.39E+04	3.93	1.45	4.76	0.47783		
	 	672.981000 668.922000	3	224.327	0.5	20	0.025	8.97E+03		8.97E+04	4.77					
10	SKOV-3 Unt 72 hr	11178.499000	3	3726.17	0.5	20 20	0.025 0.025	8.92E+03 1.49E+05		8.92E+04 1.49E+06	4.75 79.30	67.92	74.40	4.248458		-
		10130.117000	3	3376.71	0.5	20		1.35E+05	10	1.35E+06	71.86	07.02	14.40	4.240400		
		10152.669000	3	3384.22	0.5	20	0.025	1.35E+05	10	1.35E+06	72.02				V/	
1	5 ug/ml	717.629032 532.905251	3	1720.58	0.5	20	0.025	6.88E+04		6.88E+05	36.62	31.14	34.66	2.900092		-
		153.514711	3	1536.29 1454.54	0.5	20	0.025	6,15E+04 5.82E+04		6.15E+05 5.82E+05	32.70 30.96		100	-0.0		-
2	20 ug/ml	982.200159	3	988.97	0.5	20	0.025	3.96E+04		3.96E+05	21.05	17.11	18.62	2.636927		
E C		587.421719	3	892.134	0.5	20	0.025	3.57E+04	10	3.57E+05	18.99					
3	100 ug/ml	341.940073 925.443693	3	743.008 308.481	0.5	20	0.025	2.97E+04 1.23E+04		2.97E+05 1.23E+05	15.81 6.57	6.29	4.67	0.196668		-
_	1.00 digitis	886.237250	3	295.412	0.5	20		1.23E+04 1.18E+04		1.23E+05 1.18E+05	6.29	0.29	4.07	0.190008		
		163.813617	3	54.6045	0.5	20	0.025	2.18E+03	10	2.18E+04	1.16					
14	TOV112 Unt 72 hr	9774.808000	3	3258.27	0.5	20	0.025	1.30E+05		1.30E+06	69.34	36,77	66.97	5.027599		
		8772.540000 7079.596000	3	2924.18 2359.87	0.5	20	0.025	1.17E+05 9.44E+04		1.17E+06 9.44E+05	62.23 50.22					-
15	TOV112 5 ug/ml Talc	6450.657000	3	2150.22	0.5	20	0.025	8.60E+04		8.60E+05	45.76	22.29	45.39	0.723276		
		6345.112000	3	2115.04	0.5	20	0.025	8.46E+04	10	8.46E+05	45.01					
R	TOVI12 20 point Tale	6548.981000 4356.817000	3	2182.99	0.5	20	0.025	8.73E+04		8.73E+05	46.46	20.20	20.00	0.00		-
6	TOV112 20 ug/ml Talc	4125.060000	3	1452.27 1375.02	0.5	20 20	0.025	5.81E+04 5.50E+04	10	5,81E+05 5.50E+05	30.91 29.26	29.26	30.09	0.834916		-
		4205.280000	3	1401.76	0.5	20	0.025			5.61E+05	29.83					
7	TOV112 100 ug/ml Talc	468.004469	3	156.001	0.5	20	0.025	6.24E+03	10	6.24E+04	3.32	0.80	3.88	2.005517		
		268.040241 826.037950	3	89.3467 275.346	0.5	20				3.57E+04	1.90 5.86					-
В	A2780 Unt 72 hr	13187.089000	3	4395.7	0.5 0.5	20	0.025	1.10E+04 1.76E+05		1.10E+05 1.76E+06	93.55	79.53	82.70	4.489384		-
		11210.870000	3	3736.96	0.5	20	0.025	1.49E+05	10	1.49E+06	79.53	75.00				
		12105.843000	3	4035.28	0.5	20	0.025	1,61E+05	10	1.61E+06	85.88			10000000		
9	5 ug/ml	7785.982000 9185.252000	3	2595.33 3061.75	0.5	20 20	0.025	1.04E+05		1.04E+06 1.22E+06	55.23 65.16	32.21	59.45	5.349976		-
		8973.241000	3	2991.08	0.5	20		1.22E+05 1.20E+05		1.22E+06 1.20E+06	63.66					-
0	20 ug/ml	6524.891000	3	2174.96	0.5	20		8.70E+04		8.70E+05	46.29	26.64	41,76	4.547891		
		5247.982000	3	1749.33	0.5	20	0.025	7.00E+04	10	7.00E+05	37.23					-
71	100 un/ml	5986.997000 1532.565000	3	1995,67 510.855	0.5	20	0.025	7.98E+04		7.98E+05	42.47 10.87	3.77	9.82	0.068125		-
	100 ug/ml	1236.764000	3	412.255	0.5	20		2.04E+04 1.65E+04		2.04E+05 1.65E+05	8.77	3.11	3,82	0.008125	- Alexander	
_		1250.345000	3	416.782	0.5	20				1.67E+05	8.87	-		-		-

2/20/2018 Run aPCR GSR with samples 356~368

tun Summary (Smart Cycler 2.0d)				10.0	er a many a Name A congres				
tun Name:	GSR 3ul 10x		-			*	-			
td Curve:	GSR standard RADAINT SYBR				5.0		-	-	-	
tarted At:	2/20/2018 11:00					y = -0.231x + 11.391		-	-	
umber of Sites:	72				0.0	R ² = 0.9951				
esults Table					0	10	20	30	40	
te ID	Protocol San	nple ID	Sample Typ	Notes	Status	FAM Std/Res	FAM Ct	Cy3 Std/Res		Malt D
13	63-10	8	STD	*	OK	607000000	12.34		Cy3 Ct 0	Melt Pe
5	63-10		STD		OK	60700000	15.23		0 19.31	84.8
6	63-10 63-10		STD		OK	6070000	19.21		0 23.21	84.8
	63-10		STD		OK OK	607000	23.72		0 27.87	84.9
	63-10		STD		OK	60700 6070	28.68 33.61		0 0 0 36.93	
	63-10		STD		OK	607	37.13		0 36.93	84.3 84.3
	GSR - RADIANT SYBR 2017	356	UNKN		OK	12491697.33	18.59		26.21	84.4
145	GSR - RADIANT SYBR 2017 GSR - RADIANT SYBR 2017		UNKN		OK	13187855.25	18.49		26.88	84.6
	GSR - RADIANT SYBR 2017	357	UNKN		OK Ok	16497579.85	18.07		0	84.7
	GSR - RADIANT SYBR 2017	301	UNKN		OK	12550060.22 11465722.02	18.58 18.75		26.22	84.8
	GSR - RADIANT SYBR 2017		UNKN		OK	6176688.05	19.91		27.6	84.7
	GSR - RADIANT SYBR 2017	358	UNKN		ОК	1215145.558	22.97		28.58	84.7
	GSR - RADIANT SYBR 2017 GSR - RADIANT SYBR 2017		UNKN		OK	1332012.203	22.80	ND	26.73	84.7
0	GSR - RADIANT SYBR 2017 GSR - RADIANT SYBR 2017	250	UNKN		OK	1119616.004	23.13		27.78	84.5
1	GSR - RADIANT SYBR 2017	359	UNKN		OK OK	747389.005 674840.12	23.89		28.25	84.8
2	GSR - RADIANT SYBR 2017		UNKN		OK	813358.594	24.08		27.91 27.85	84.7
3	GSR - RADIANT SYBR 2017	360	UNKN		ОК	1630605.248	22.42		26.88	84.7
	GSR - RADIANT SYBR 2017		UNKN		OK	1582898.701	22.47		25.82	84.6
3	GSR - RADIANT SYBR 2017 GSR - RADIANT SYBR 2017	001	UNKN		OK	1475190.908	22.61		25.77	84.6
	GSR - RADIANT SYBR 2017	361	UNKN		OK	1533631.102	22.53		26.35	84.6
	GSR - RADIANT SYBR 2017		UNKN		OK OK	1381068.599 994223.617	22.73 23.35		26.41	84.7
	GSR - RADIANT SYBR 2017	362	UNKN		OK	1232346.22	22.94		26.52	84.8
	GSR - RADIANT SYBR 2017		UNKN		OK	1454072.785	22.63		28.83	84.8
	GSR - RADIANT SYBR 2017		UNKN		OK	1604451.237	22.45		28.53	84.93
	GSR - RADIANT SYBR 2017 GSR - RADIANT SYBR 2017		UNKN		OK	1313932.919	22.82		27.46	84.73
	GSR - RADIANT SYBR 2017		UNKN		OK	1243345.953	22.93		27.74	84.79
	GSR - RADIANT SYBR 2017		UNKN		OK OK	1120583.93 832867.79	23.12		28.84	84.7
	GSR - RADIANT SYBR 2017		UNKN		OK	904011.833	23.68		28.53	84.69
	GSR - RADIANT SYBR 2017		UNKN		OK	838919.217	23.67		29.63	84.68
	GSR - RADIANT SYBR 2017		UNKN		OK	911978.592	23.51	ND	28.98	84.92
	GSR - RADIANT SYBR 2017 GSR - RADIANT SYBR 2017		UNKN		OK	890503.785	23.56		28.52	84.76
	GSR - RADIANT SYBR 2017	366	UNKN		OK OK	924489.784	23.49		29.83	84.66
	GSR - RADIANT SYBR 2017		UNKN	-	OK	892768.919 903235.028	23.55		27.36	84.68
	GSR - RADIANT SYBR 2017		UNKN		OK	858318.882	23.62		28.58 27.95	84.75
	GSR - RADIANT SYBR 2017		UNKN		OK	937151.754	23.46		27.96	84.91
	GSR - RADIANT SYBR 2017 GSR - RADIANT SYBR 2017		UNKN		OK	914716.164	23.51		27.79	84.73
	GSR - RADIANT SYBR 2017		UNKN		OK	955679.539	23.42		27.73	84.67
	GSR - RADIANT SYBR 2017		JNKN		OK OK	1630605.248 1582898.701	23.53		27.87	84.82
	GSR - RADIANT SYBR 2017		JNKN	1000000	OK	1475190.908	23.39		27.68	84.77
	GSR - RADIANT SYBR 2017		JNKN		OK	1533631.102	25.10		29.49	84.78 84.61
	GSR - RADIANT SYBR 2017		JNKN		OK	1381068.599	23.27		27.64	84.95
	GSR - RADIANT SYBR 2017 GSR - RADIANT SYBR 2017		JNKN		OK	994223.617	23.41	ND	27.45	84.91
	GSR - RADIANT SYBR 2017		JNKN		OK	1232346.22	22.92		0	84.83
	GSR - RADIANT SYBR 2017		JNKN		OK OK	1454072.785 1604451.237	23.36		27.92	84.81
	GSR - RADIANT SYBR 2017	371			OK	1313932.919	23.50		27.31	84.83
	GSR - RADIANT SYBR 2017	- (JNKN		OK	1243345.953	23.73		26.64 27.83	84.51 84.64
	GSR - RADIANT SYBR 2017		JNKN		OK	1120583.93	23.16		0	84.64
	GSR - RADIANT SYBR 2017 GSR - RADIANT SYBR 2017	379 (OK	832867.79	23.68 N	ND .	26.35	84.71
	GSR - RADIANT SYBR 2017		JNKN		OK	904011.833	23.53 N		27.68	84.63
	GSR - RADIANT SYBR 2017	380 (OK OK	838919.217 911978.592	23.67 N		27.53	84.71
	GSR - RADIANT SYBR 2017		JNKN		OK	890503.785	23.51 N		28.81 27.34	84.7
	GSR - RADIANT SYBR 2017	L	JNKN		OK	924489.784	23.49 N		27.56	84.74 84.37
	GSR - RADIANT SYBR 2017	381 L			OK	892768.919	23.55 N		27.52	84.7
	GSR - RADIANT SYBR 2017 GSR - RADIANT SYBR 2017		INKN		OK	903235.028	23.53 N		0	84.39
	GSR - RADIANT SYBR 2017	382 L	INKN		OK OK	858318.882	23.62 N		27.7	84.7
	GSR - RADIANT SYBR 2017		INKN		OK OK	937151.754 914716.164	23.46 N 23.51 N		27.5	84.57
	GSR - RADIANT SYBR 2017		INKN		OK OK	955679.539	23.51 N		25.59	84.49
	GSR - RADIANT SYBR 2017	383 L	INKN		OK	900868.733	22.42 N		26.81	84.62
	GSR - RADIANT SYBR 2017		INKN		OK	971821.883	22.47 N		0	84.75
	GSR - RADIANT SYBR 2017 GSR - RADIANT SYBR 2017		NKN		OK	975332.42	22.61 N	ID	26.55	84.79
	GSR - RADIANT SYBR 2017 GSR - RADIANT SYBR 2017	384 U			OK OK	391645.027	22.53 N		0	84.67
	GSR - RADIANT SYBR 2017		NKN		OK OK	1038721.604	22.73 N		0	84.69
	GSR - RADIANT SYBR 2017	385 U			OK OK	964544.979 1248521.587	23.35 N 22.94 N		27.82	84.76
	GSR - RADIANT SYBR 2017	U	NKN		OK	989162.626	22.63 N		28.33	84.74 84.67
	GSR - RADIANT SYBR 2017		NKN		OK	915563.768	22.45 N		0	84.75
	GSR - RADIANT SYBR 2017 GSR - RADIANT SYBR 2017	386 U			OK	922938.923	22.82 N	D	29.31	84.83
	GSR - RADIANT SYBR 2017		NKN NKN		OK	813667.525	22.93 N	D	28.72	84.85

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			Initial time (s) at 95 C	Melt time at 95 C	Anneal time (s) and Temp	extension time (s) and temp
Drimer	information	& Calculation	60	15	10, 59	30, 72

Accession #	Gene	Sequence	Fwd Primer	Rev Primer	Standard Length		Start Position	1
NM_000637	GSR	AAT CTC ACC AAG TCC CAT ATA GAA ATC ATC CGT GGC CAT AAG CCC ACA ATA GAG GTC AGT GGG AAA AAG TAC ACC GCC CCA CAC ATC CTG ATC GCC ACA GGT G	TCACCAAGTCCCATATAGAAATC	TGTGGCGATCAGGATGTG	103	116		

Bene of Interest		GSR	Unit	Formula				20 2			■ EL-1 ■ Nora ■ FT33	mal Ovarian		
Dalton - 1.66E-2-	4 grams	1.66E-24	g				NA	+			■ Ovar	ian Cancer (SKOV-3) ian Cancer (TOV112)		-
Mass of base pair Avg. Mass/base		615 305.25	Da Da				- 3				₩ Ovar	ian Cancer (A2780)	-	
ang, massimise							6		1					
ength of entire ge	ene	103	bases Da	_ n		ne/bases	SS 10.		-, I	-, i			-	-
Mass in Daltons Mass in grams		3.14E+04 5.22E-20	g	- number base - mass in Da >			GSR Exp	00 1			-1-0	Towns.		
Mass in ug		5.22E-14	ug	- above / 10E			0 0.	Control		5	20	100		
Aass in ng		5.22E-11	ng/copy	- above x 10E	3			- Samuel	Talc	Treatment (ug/m	I,72 hours)			-
	1-1-						1				1			
D	Sample	Сору#	ul cDNA used	copies/ul cDNA	ug RNA used	ul cDNA made	ug RNA/ul cDNA	copies/ug RNA	Dilution Factor	Copies/ug RNA x Df	pg/ug RNA	Normalized	Average	St Dev
56	EL1 Unt 72 hr	2491697.3	3	830565.78	0.5	20	0.025	3.32E+07	10	3.32E+08	17.34	16.89	19.25	2.360123
		3187855.3	3	1062618.4	0.5	20	0.025	4.25E+07	10	4.25E+08	22.18	21,62		-
		6497579.9	3	2165860	0.5	20		8.66E+07 3.40E+07	10	8.66E+08 3.40E+08	45.22 17.75	44.06 17.42	13.71	1.275139
57	EL1 5 ug/ml Talc	2550060.2 1465722	3	850020.07 488574.01	0.5	20		1.95E+07	10	1.95E+08	10.20	10.01	10.71	1.270100
		2176688.1	3	725562.68	0.5	20		2.90E+07	10	2.90E+08	15.15	14.87		
58	EL1 20 ug/ml Talc	1215145.6	3	405048.52	0.5	20		1.62E+07	10	1.62E+08	8.46	10.61	10.19	0.58981
		1332012.2	3	444004.07	0.5	20		1.78E+07	10	1.78E+08 1.49E+08	9.27	11.63 9.78		-
co	EL1 100 ug/ml Talc	1119616 747389.01	3	373205.33 249129.67	0.5	20		1.49E+07 9.97E+06	10	9.97E+07	5.20	5.20	5.43	0.324615
359	LET 100 agrill Tale	674840.12	3	224946.71	0.5	20		9.00E+06	10	9.00E+07	4.70	4.70		
		813358.59	3	271119.53	0.5	20		1.08E+07	10	1.08E+08	5.66	5.66	12.0	
83	Normal Ovarian Unt 72 hr	1630605.2	3	543535.08	0.5	20		2.17E+07	10	2.17E+08 2.11E+08	11.35	10.72	10.57	0.221873
		1582898.7 1475190.9	3	527632.9 491730.3	0.5	20		2.11E+07 1.97E+07	10	1.97E+08	10.27	9.70		
884	5 ug/ml	1533631.1	3	511210.37	0.5	20	0.025	2.04E+07	10	2.04E+08	10.67	10.17	9.66	0.715034
410000000000000000000000000000000000000		1381068.6		460356.2	0.5	20		1.84E+07	10	1.84E+08	9.61	9.15		-
0.5	- CO wasterd	994223.62		331407.87	0.5	20		1.33E+07 1.64E+07	10	1.33E+08 8.22E+07	6.92	6.59 3.86	4.79	0.333387
85	20 ug/ml	1232346.2 1454072.8	3	410782.07 484690.93	0.5	20		1.94E+07	5	9.69E+07	5.06	4.56	7.10	0.00007
		1604451.2	3	534817.08	0.5	20		2.14E+07	5	1.07E+08	5.58	5.03		
86	100 ug/ml	1313932.9		437977.64	0.5	20		1.75E+07	5	8.76E+07	4.57	4.57	4.45	0.173668
		1243346		414448.65		20		1.66E+07		8.29E+07 7.47E+07	4.33 3.90	4.33 3.90		
179	FT33 Unt 72 hr	1120583.9 832867.79		373527.98 277622.6	0.5	20		1.49E+07 1.11E+07	30	3.33E+08	17.39	10.27	10.31	0.052777
179	F133 UIII 72 III	904011.83		301337.28		20		1.21E+07	30	3.62E+08	18.87	11.15		
		838919.22		279639.74	0.5	20		1.12E+07		3.36E+08	17.51	10.35		-
80	5 ug/ml Talc	911978.59		303992.86		20		1.22E+07		2.43E+08	12.69	6.29 6.14	6.21	0.104656
		890503.79 924489.78		296834.6 308163.26	0.5	20		1.19E+07 1.23E+07	20	2.37E+08 2.47E+08	12.87	6.37		
81	20 ug/ml Talc	892768.92		297589.64	0.5	20		1.19E+07		5.95E+07	3.11	3.11	3.05	0.084759
		903235.03		301078.34		20		1.20E+07		6.02E+07	3.14	3.14		
		858318.88		286106.29		20		1.14E+07 1.25E+07		5.72E+07 1.25E+08	2.99 6.52	2.99	2.72	0.059714
82	100 ug/ml Talc	937151.75		312383.92 304905.39		20		1.23E+07		1.22E+08	6.37	2.66	2.12	0.000714
		955679.54		318559.85		20		1.27E+07		1.27E+08	6.65	2.78		
60	SKOV-3 Unt 72 hr	1630605.2		543535.08		20		2.17E+07		2.17E+08	11.35	11.35	11.18	0.234748
		1582898.7		527632.9 491730.3	0.5	20		2.11E+07 1.97E+07		2.11E+08 1.97E+08	11.02	11.02		-
61	5 ug/ml	1475190.9 1533631.1	3	511210.37		20		2.04E+07		2.04E+08	10.67	5.28	5.01	0.371118
		1381068.6		460356.2	0.5	20	0.025	1.84E+07	10	1.84E+08	9.61	4.75		
00	20	994223.62		331407.87	0.5	20		1.33E+07 1.64E+07		1.33E+08 8.22E+07	6.92 4.29	3.42	3.81	0.264745
362	20 ug/ml	1232346.2 1454072.8		410782.07 484690.93		20		1.64E+07 1.94E+07		9.69E+07	5.06	3.62	3.01	0.204745
		1604451.2	3	534817.08	0.5	20	0.025	2.14E+07	5	1.07E+08	5.58	3.99		
363	100 ug/ml	1313932.9		437977.64		20		1.75E+07		8.76E+07	4.57	1.97	1.91	0.074685
		1243346 1120583.9		414448.65 373527.98		20		1.66E+07 1.49E+07		8.29E+07 7.47E+07	4.33 3.90	1.86		
164	TOV112 Unt 72 hr	832867.79		277622.6		20		1.11E+07		3.33E+08	17.39	13.83	13.88	0.071078
		904011.83	3	301337.28	0.5	20	0.025	1.21E+07		3.62E+08	18.87	15.02		
200	TO (442 E vetes Tele	838919.22		279639.74		20		1.12E+07 1.22E+07		3.36E+08 2.43E+08	17.51	13.94 12.21	12.06	0.203256
065	TOV112 5 ug/ml Talc	911978.59 890503.79		303992.86 296834.6	0.5	20		1.19E+07		2.43E+08	12.39	11.92	2.00	10020
		924489.78	3	308163.26	0.5	20	0.025	1.23E+07	20	2.47E+08	12.87	12.37		
366	TOV112 20 ug/ml Talc	892768.92		297589.64		20		1.19E+07 1.20E+07		5.95E+07 6.02E+07	3.11	2.98 3.02	2.93	0.081391
		903235.03 858318.88		301078.34 286106.29		20		1.20E+07 1.14E+07		5.72E+07	2.99	2.87		
67	TOV112 100 ug/ml Talc	937151.75		312383.92		20		1.25E+07	10	1.25E+08	6.52	2.41	2.41	0.05276
		914716.16	3	304905.39	0.5	20		1.22E+07		1.22E+08	6.37	2.35		
-00	A0700 Had 70 h	955679.54 900868.73		318559.85 300289.58		20		1.27E+07 1.20E+07		1.27E+08 1.20E+08	6.65	2.46 6.27	6.61	0.017274
68	A2780 Unt 72 hr	971821.88		323940.63		20		1.30E+07		1.30E+08	6.76	6.76		
		975332.42	3	325110.81	0.5	20	0.025	1.30E+07	10	1.30E+08	6.79	6.79		
369	5 ug/ml	391645.03		130548.34		20		5.22E+06		5.22E+07		1.59 4.22	4.07	0.213087
		964544.98		346240.53 321514.99		20		1.38E+07 1.29E+07		1.38E+08 1.29E+08	7.23 6.71	3.92		
370	20 ug/ml	1248521.6		416173.86		20	0.025	1.66E+07	10	1.66E+08	8.69	4.35	3.32	0.18132
		989162.63	3	329720.88	0.5	20	0.025	1.32E+07	10	1.32E+08	6.88	3.45		-
-74	400 ()	915563.77		305187.92		20		1.22E+07 1.23E+07		1.22E+08 1.23E+08	6.37	3.19 2.56	2.40	0.21392
371	100 ug/ml	922938.92 813667.53		307646.31 271222.51		20		1.08E+07		1.08E+08		2.25	2.10	1002
		1096341.3		365447.1	0.5	20				1.46E+08		3.04		

2/21/2018

Run PCR - iNOS with samples 356~368

Primer information

Accession #	Gene	Sequence	Fwd Primer	Rev Prime	to the same of the		Product /Amplico n Length	Start Positio	n -
NM_000625		GAGGACCACATCTACCAGGAGGAGAGTGCTGGAGATGG CCCAGAAGGGGGTGCTGCATGCGGTGCACACAGCCTAT TCCCGCCTGCCTGG	GAGGACCACATCTACCAGGA	CCAGGCAGGCGG	GAATAGO	89	89	332	25
					Initial tin		C 100 100 100 100 100 100 100 100 100 10	s) time (s)	6
							10.5		-

Row data

	mmary (Smart Cycler 2.0c)	September 1997					10.0				SERVING SUM		T	
	iNOS 3ul 10x							8 5.0		**					
1 Cui	new iNOS stand RAD 69-10 7			110000000000000000000000000000000000000				5.0	y = -0.3109x +	11.521	-				7000
nbe	2/21/2018 12:10 72					-		3	R ² = 0.996	66	-				
	12	-	1	1	-	-		0.0				20	1		
ults	Table	100000000000000000000000000000000000000	1		-			+ °		O Ct 20		30	-		-
	Protocol	Sample ID	Sample Type	Notes	Status	FAM Std/R	EAM C+	Cy3 Std/Res	Cy3 Ct	TxR Std/Res	Tup Ct	O.F. DUT	0.50	11.11.7	
100	INOS RADIANT SYBR 2017		STD	110100	OK	_					TxR Ct	Cy5 Std/Res	Cy5 Ct	Melt Peak1	
0	INOS RADIANT SYBR 2017		STD	-		61500000			0 15.89	-	0 (0	86.47	7
				-	OK	6150000	14.94		0 18.64		0 (0	86.2	6
	INOS RADIANT SYBR 2017		STD	-	OK	615000	17.97		0 0		0 (0	86.36	5
2	INOS RADIANT SYBR 2017		STD		OK	61500	22.07		0 25.97		0		0		4
	INOS RADIANT SYBR 2017		STD		ОК	6150	24.87		0 28.34) (-	3
	INOS RADIANT SYBR 2017		STD		ОК	615	28.04	A STATE OF THE STA	0 31.82		-				2
	INOS RADIANT SYBR 2017	356	UNKN		OK	560.436	28.22		31.19			ND	0		- 4
	INOS RADIANT SYBR 2017		UNKN		OK	562.873	28.21	ND	31.95	ND		ND	0		
-	INOS RADIANT SYBR 2017		UNKN		OK	624.134	28.07			ND		ND	0		
	INOS RADIANT SYBR 2017 INOS RADIANT SYBR 2017	357	UNKN	-	OK	1763.75	26.61		31.51		(ND	0		
	INOS RADIANT SYBR 2017		UNKN	-	OK	1638.771	26.72		32,64			ND	0	86.24	(c. (b)
	INOS RADIANT SYBR 2017	358		-	OK OK	1605.089	26.75		31,85			ND	0		1
	INOS RADIANT SYBR 2017	000	UNKN		OK	2532.63 2620.276	26.11 26.06		33.61			ND	. 0		-
	INOS RADIANT SYBR 2017		UNKN		OK	2707.271	26.02		32.19			ND ND	0		200
	INOS RADIANT SYBR 2017	359	UNKN		OK	3441.472	25.68	ND	30.15			ND	0		
	INOS RADIANT SYBR 2017		UNKN		OK	3608.612	25,61	ND	30.53	ND		ND	0		
	INOS RADIANT SYBR 2017	000	UNKN		OK	3779.663	25.55		30.42	ND		ND	0		
	INOS RADIANT SYBR 2017 INOS RADIANT SYBR 2017	360	UNKN	-	OK	1198.584	27.15		33.97			ND	0		
	INOS RADIANT SYBR 2017		UNKN	+	OK	1212.664	27.14		32.77			ND	0	86,13	
	NOS RADIANT SYBR 2017	361	UNKN	-	OK OK	1161.64 2173.64	27.20		33.97			ND	0		
	NOS RADIANT SYBR 2017	001	UNKN		OK	2186.53	26.32 26.31		33.36	ND ND		ND	0		
	NOS RADIANT SYBR 2017		UNKN		OK	2121.38	26.36		33.6			ND ND	0		-
	NOS RADIANT SYBR 2017	362	UNKN		ОК	3598.51	25.62			ND		ND	0		-
	NOS RADIANT SYBR 2017		UNKN		OK	3480.36	25.67		34.69			ND	0	86.21	
	NOS RADIANT SYBR 2017 NOS RADIANT SYBR 2017	200	UNKN		OK	3740.39	25.56		34.54	ND		ND	0	86.31	
	NOS RADIANT SYBR 2017	363	UNKN		OK	4066.248	25.45		31.59			ND	0	86.41	
	NOS RADIANT SYBR 2017		UNKN	-	OK	4952.365	25.17		31.94			ND	0		
	NOS RADIANT SYBR 2017	364	UNKN	-	OK OK	994.502	25.46 27.42		33,93			ND	0		
	NOS RADIANT SYBR 2017		UNKN		OK	942.888	27.49		32.67 31.77			ND	0		See and
	NOS RADIANT SYBR 2017		UNKN		OK	1013.606	27.39		32.72		0	ND ND	0		-
	NOS RADIANT SYBR 2017	365	UNKN		OK	2450.062	26.16		32.89		0	ND	0		
	NOS RADIANT SYBR 2017		UNKN		ОК	21247.16	23.14		31.75			ND	0		
	NOS RADIANT SYBR 2017		UNKN	Seall Made	OK	2644.139	26.05	ND		ND		ND	0		_
	NOS RADIANT SYBR 2017	366	UNKN		OK	2051.07	26.40		31.11			ND	0		
	NOS RADIANT SYBR 2017 NOS RADIANT SYBR 2017		UNKN		OK	2061.872	26.40		31.77			ND	0		
1	NOS RADIANT SYBR 2017	367	UNKN		OK	2191.008	26.31		31.62			ND	0		
	NOS RADIANT SYBR 2017	307	UNKN		OK OK	7818.098 7023.288	24.53		31.75			ND	0		
	NOS RADIANT SYBR 2017		UNKN		OK	7233.577	24.64		31.65 31.59			ND	0	86.28	
i	NOS RADIANT SYBR 2017	368	UNKN		OK	833.854	27.66		31.77	ND		ND ND	0	86.42 86.23	-
	NOS RADIANT SYBR 2017		UNKN		OK	980.02	27.44		31.52			ND	0	86.29	
	NOS RADIANT SYBR 2017		UNKN		OK	907.709	27.54		31.56			ND	0	86.3	
	NOS RADIANT SYBR 2017	369	UNKN		ОК	2907.306	25.92	ND	32.85	ND		ND	0		
	NOS RADIANT SYBR 2017 NOS RADIANT SYBR 2017		UNKN		OK	2721,779	26.01		31.88	ND		ND	0	86.55	200
	NOS RADIANT SYBR 2017	370	UNKN		OK OK	2724.242	26.01		31.74			ND	0	86.3	11111
i	NOS RADIANT SYBR 2017	3/0	UNKN		OK	3991,927 3634,487	25.47 25.60			ND		ND	0		
i	NOS RADIANT SYBR 2017		UNKN		OK	3748.078	25.56		32.38 31.5			ND	0	86.25	
	NOS RADIANT SYBR 2017	371	UNKN		OK	8451.56	24.43		33.8			ND ND	0	86.16 86.29	
	NOS RADIANT SYBR 2018		UNKN		OK	8687.2	24.39		34.8			ND	0	86.29	_
	NOS RADIANT SYBR 2019		UNKN		ОК	8870.22	24.36	ND	35.8		2	ND	0	86.29	0
	NOS RADIANT SYBR 2017 NOS RADIANT SYBR 2017	379	UNKN		OK	998.221	27.41		31,39	ND	0	ND	0	86.11	
	NOS RADIANT SYBR 2017		UNKN		OK	982.022	27.43		32.63			ND	0	86.01	
	NOS RADIANT SYBR 2017	380	UNKN		OK OK	2450.062	27.39		31.68			ND	0	86	
il	NOS RADIANT SYBR 2017	200	UNKN		OK	2450.062 2324.16	26.16 26.23		31.59			ND	0	86.28	1000
il	NOS RADIANT SYBR 2017		UNKN		OK	2544.139	26.10		30.53			ND ND	0	86.2	
	NOS RADIANT SYBR 2017	381	UNKN		OK	2131.035	26.35		30.34			ND	0	85.86	
	NOS RADIANT SYBR 2017		UNKN		OK	2251.456	26.27	ND	30.29	ND	0	ND	0	86.09	
11/	NOS RADIANT SYBR 2017 NOS RADIANT SYBR 2017	900	UNKN		OK	2161.65	26.33		30.49	ND	0	ND	0	86.19	
	NOS RADIANT SYBR 2017	382	UNKN		OK	7560.934	24.58		33.65			ND	0	86.13	
	NOS RADIANT SYBR 2017		UNKN		OK OK	7752.091	24.55		32.4			ND	0	86.11	
	NOS RADIANT SYBR 2017	383	UNKN		OK	7623.022 1044.584	24.57		31.81			ND	0	86.2	
ii)	NOS RADIANT SYBR 2017		UNKN	-	OK	1103.932	27.35		33.29			ND	0	86.14	
il	NOS RADIANT SYBR 2017		UNKN	Registration of	OK	1115.921	27.25		33.56	ND.		ND ND	0	86.31	500
il	NOS RADIANT SYBR 2017	384	UNKN		OK	1911.298	26.50		33.30			ND ND	0	86.33 86.32	
	NOS RADIANT SYBR 2017		UNKN		OK	1872.882	26.53		33.71	ND		ND	0	86.24	-
	NOS RADIANT SYBR 2017		UNKN		OK	1782.822	26.60	ND	33.56			ND	0	86.32	
- III	NOS RADIANT SYBR 2017		UNKN	1/1/20	OK	2780.221	25.98		31.71	ND		ND	0	86.25	70.00
	NOS RADIANT SYBR 2017 NOS RADIANT SYBR 2017		UNKN		OK	2891.922	25.92		32.63	ND	0	ND	0	86.15	
	NOS RADIANT SYBR 2017		UNKN		OK	2777.119	25.98		0 1			ND	0	86.26	
			UNKN		OK	4177.939	25.41		32.58		. 0	ND	0	86,38	
110	IOS RADIANT SYBR 2017				OK	4522.782	25.30		32.15			ND	0	86.35	

Calculation

iene of	Interest	iNOS		Γ		1	1				T	T	7	-
T		ACTOR	Unit	Formula			The second			SECURITY OF SECURITY			-	-
Dalton	- 1.66E-24 grams	1.66E-24	g			1	 	 			+			-
lass of	base pair	615	Da			1		MEL-1						-
vg. Ma	ss/base	305.25	Da				30.00	MNoramal Ovari	an					-
1							₩ 25.00 -	₩ Ovarian Cance			I			+
ength	of entire gene	89	bases				₹ 20.00 -	■Ovarian Cance	r(TOV112)	IX.	T.	Ž,		1
lass in	Daltons	2.72E+04	Da	- number base	s x avg. mass/	base	E 15.00 -		I	×1_×		I		
lass in	grams	4.51E-20	g		mass of a Da		\$ 10.00 -		(Š()) I	T X	I			+
ass in	ug	4.51E-14	ug	- above / 10E-		T	5.00 -	-0.0-					-	+
ass in	ng	4.51E-11	ng/copy	- above x 10E3		-	80.00						-	-
			8 17			1	N.	Control	5	20	100		1	+
####									Talc Treatmen	nt (ug/ml,72 hours)				-
0	Sample	Copy#	ul cDNA used	copies/ul	ug RNA	ul cDNA	ug RNA/ul		Dilution	Copies/ug	fg/ug			
		-	ui CDNA used	cDNA	used	made	cDNA	copies/ug RNA	Factor	RNA x Df	RNA	Normalized	Average	St
5 E	EL1 Unt 72 hr	560.436	3	186.812	0.5	20	0.025	7.47E+03	10	7.47E+04	3.37	3.28	3.48	8 0.2
		562.873	3	187.62433	0.5	20	0.025	7.50E+03	10	7.50E+04	3.38	3.30		1
-		624.134	3	208.04467	0.5	20	0.025	8.32E+03	10	8.32E+04	3.75	3.66	State Williams	
7 E	L1 5 ug/ml Talc	1763.75	3	587.91667	0.5	20	0.025	2.35E+04	10	2.35E+05	10.61	10.41	10.04	4 0.
		1638.771	3	546.257	0.5	20	0.025	2.19E+04	10	2.19E+05	9.85	9.67		
		1605.089	3	535.02967	0.5	20	0.025	2.14E+04	10	2.14E+05	9.65	9.47		
3 E	EL1 20 ug/ml Talc	2532.63	3	844.21	0.5	20	0.025	3.38E+04	10	3.38E+05	15.23	19.11	19.44	4 0.4
		2620.276	3	873.42533	0.5	20	0.025	3.49E+04	10	3.49E+05	15.76	19.77		1
		2707.271	3	902.42367	0.5	20		3.61E+04	10	3.61E+05	16.28	20.43		
E	L1 100 ug/ml Talc	3441.472	3	1147.1573	0.5	20		4.59E+04	10	4.59E+05	20.69	20.69	21.20	0.0
		3608.612	3	1202.8707	0.5	20		4.81E+04	10	4.81E+05	21.70	21.70		1
19		3779.663	3	1259.8877	0.5	20		5.04E+04	10	5.04E+05	22.73	22.73		1
3 N	Iormal Ovarian Unt 72 hr	1044.584	3	348.19467	0.5	20		1.39E+04	10	1.39E+05	6.28	5.94	6.31	1 0
		1103.932	3	367.97733	0.5	20		1.47E+04	10	1.47E+05	6.64	6.27		
		1115.921	3	371.97367	0.5	20		1.49E+04	10	1.49E+05	6.71	6.34		
5	ug/ml	1911.298	3	637.09933	0.5	20	0.025	2.55E+04	10	2.55E+05	11.49	10.95	10.84	0.
		1872.882	3	624.294	0.5	20		2.50E+04	10	2.50E+05	11.26	10.73	10.04	1
		1782.822	3	594.274	0.5	20		2.38E+04	10	2.38E+05	10.72	10.21		1
2	0 ug/ml	2780.221	3	926.74033	0.5	20		3.71E+04	10	3.71E+05	16.72	15.06	15.37	0
		2891.922	3	963.974	0.5	20		3.86E+04	10	3.86E+05	17.39	15.67	10.07	1
		2777.1193	3	925.70643	0.5	20		3.70E+04	10	3.70E+05	16.70	15.05		-
3 1	00 ug/ml	4177.9387	3	1392.6462	0.5	20		5.57E+04	10	5.57E+05	25.12	25.12	26.34	1 1.0
		4522.7821	3	1507.594	0.5	20		6.03E+04	10	6.03E+05	27.20	27.20	20.54	1
		4439.992	3	1479.9973	0.5	20		5.92E+04	10	5.92E+05	26.70	26.70		-
F	T33 Unt 72 hr	998.221	3	332.74033	0.5	20		1.33E+04	10	1.33E+05	6.00	3.55	3.57	0.0
		982.022	3	327.34067	0.5	20		1.31E+04	10	1.31E+05	5.90	3.49	3.51	0.0
		1011.299	3	337.09967	0.5	20		1.35E+04	10	1.35E+05	6.08	3.59	-	-
5	gug/ml Talc	2450.062	3	816.68733	0.5	20		3.27E+04	10	3.27E+05	14.73	7.30	7.44	-
		2324.16	3	774.72	0.5	20		3.10E+04	10	3.10E+05	13.98	6.92	7.44	0
		2544.139	3	848.04633	0.5	20		3.39E+04	10	3.39E+05	15.30	7.58		-
1 2	0 ug/ml Talc	2131.035	3	710.345	0.5	20		2.84E+04	10	2.84E+05	12.81	12.81	10.10	-
		2251.456	3	750.48533	0.5	20		3.00E+04	10	3.00E+05	13.54	13.54	13.12	0
		2161.65	3	720.55	0.5	20	0.025	2.88E+04	10	2.88E+05	13.00	13.00		-
110	00 ug/ml Talc	7560.934	3	2520.3113	0.5	20		1.01E+05	10	1.01E+06	45.46	19.02	19.23	100
		7752.091	3	2584.0303	0.5	20		1.03E+05	10	1.03E+06	46.61	19.50	19.23	0.3
20		7623.022	3	2541.0073	0.5	20	0.025	1.02E+05	10	1.02E+06	45.84	19.17		-
S	KOV-3 Unt 72 hr	1198.584	3	399.528	0.5	20		1.60E+04	10	1.60E+05	7.21	7.21	7.14	100
		1212.664	3	404.22133	0.5	20	0.025	1.62E+04	10	1.62E+05	7.29	7.29	7.14	0.2
		1161.64	3	387.21333	0.5	20	0.025	1.55E+04	10	1.55E+05	6.98	6.98	-	-
5	ug/ml	2173.64	3	724.54667	0.5	20	0.025	2.90E+04	10	2.90E+05	13.07	6.46	C 40	100
		2186.53	3	728.84333	0.5	20	0.025	2.92E+04	10	2.92E+05	13.15	6.50	6.48	0.0
	-	2121.38	3	707.12667	0.5	20	0.025	2.83E+04	10	2.83E+05	12.76	6.31	Chicago and the	-
20) ug/ml	3598.51	3	1199.5033	0.5	20	0.025	4.80E+04	10	4.80E+05	21.64	15.48	45.00	100
		3480.36	3	1160.12	0.5	20	0.025	4.64E+04	10	4.64E+05	20.93	15.48	15.23	0.3
		3740.39	3	1246.7967	0.5	20	0.025	4.99E+04	10	4.64E+05 4.99E+05	22.49		-	-
10	00 ug/ml	4066.248	3	1355.416	0.5	20	0.025	5.42E+04	10	4.99E+05 5.42E+05	24.45	16.09 10.51	44.55	1
		4952.365	3	1650.7883	0.5	20	0.025	6.60E+04	10	6.60E+05	29.78	12.81	11.25	1.3
		4028.142	3	1342.714	0.5	20	0.025	5.37E+04	10	5.37E+05	24.22	10.42		-
TO	OV112 Unt 72 hr	994.502	3	331.50067	0.5	20	0.025	1.33E+04	10	1.33E+05	5.98	4.76	1.00	-
		942.888	3	314.296	0.5	20	0.025	1.26E+04	10	1.33E+05 1.26E+05	5.67	4.76	4.80	0.
		1013.606	3	337.86867	0.5	20	0.025	1.35E+04	10	1.35E+05	6.09	4.85		
TO	OV112 5 ug/ml Talc	2450.062	3	816.68733	0.5	20	0.025	3.27E+04	10	3.27E+05	14.73	14.17	44.70	0.7
		21247.16	3	7082.3867	0.5	20	0.025	2.83E+05	10	2.83E+06	127.76	122.87	14.73	0.7
		2644.139	3	881.37967	0.5	20	0.025	3.53E+04	10	3.53E+05	15.90	15.29		
TO	OV112 20 ug/ml Talc	2051.07	3	683.69	0.5	20	0.025	2.73E+04	10	2.73E+05	12.33	15.29	40.40	0.5
	Marie Transfer Commence	2061.872	3	687.29067	0.5	20	0.025	2.75E+04	10	2.75E+05	12.33	11.84	12.13	0.5
		2191.008	3	730.336	0.5	20	0.025	2.92E+04	10	2.75E+05 2.92E+05	13.17	12.65		-
TO	OV112 100 ug/ml Talc	7818.098	3	2606.0327	0.5	20	0.025	1.04E+05	10	1.04E+06	47.01		40.00	1.0
	Maria de la companya del la companya de la companya	7023.288	3	2341.096	0.5	20	0.025	9.36E+04	10	9.36E+05	42.23	17.38 15.61	16.35	1.2
		7233.577	3	2411.1923	0.5	20	0.025	9.64E+04	10	9.64E+05	43.50			-
A2	2780 Unt 72 hr	833.854	3	277,95133	0.5	20	0.025	1.11E+04	10			16.08		-
1		980.02	3	326.67333	0.5	20	0.025	1.11E+04 1.31E+04		1.11E+05	5.01	2.05	2.23	0.2
-		907.709	3	302.56967	0.5				10	1.31E+05	5.89	2.41		-
5.	ug/ml	2907.306	3			20	0.025	1.21E+04	10	1.21E+05	5.46	2.24		
100	-grini	2721.779	3	969.102	0.5	20	0.025	3.88E+04	10	3.88E+05	17.48	10.21	9.77	0.3
-		2724.242	3	907.25967	0.5	20	0.025	3.63E+04	10	3.63E+05	16.37	9.55		
20	ug/ml	3991.927	3	908.08067	0.5	20	0.025	3.63E+04	10	3.63E+05	16.38	9.56		-
20	vg/III	3634.487	3	1330.6423	0.5	20	0.025	5.32E+04	10	5.32E+05	24.00	12.02	11,41	0.5
-				1211.4957	0.5	20	0.025	4.85E+04	10	4.85E+05	21.85	10.94		
-	Overled	3748.078	3	1249.3593	0.5	20	0.025	5.00E+04	10	5.00E+05	22.54	11.28		10000
10	0 ug/ml	8451.56	3	2817.1867	0.5	20	0.025	1.13E+05	10	1.13E+06	50.82	20.22	20.74	0.6
-		8687.2		2895.7333	0.5	20	0.025	1.16E+05	10	1.16E+06	52.24	20.78		
		8870.22	3	2956.74	0.5	20	0.025	1.18E+05	10	1.18E+06	53.34	3SAED0		

3/2/2018 Run PCR - MPO with Samples

Accession #	Gene	Sequence	Fwd Primer	Rev Primer		Product /Amplico n Length	Start Position
NM_000250	MPO Feb 2	CACTTGTATCCTCTGGTTCTTCATTTATTGAGCACCTACT ACATGCAAGGCACTGTACTAGGCGTGAGAAGCATATAG A		TCTATATGCTTCTCACGCCT	79	79	2859
				initial ti	N.C.53 1/1/299-5/9/9/074		(s) time (s)
		Rav	n date		15	63, 6	50 30, 72

			-		-	10.0				-
Run Summary (Sm	nart Cycler 2.0d)		Facility V. 1970		Na Na		-		_	
Run Name:	MPO 3ul 10x talc			-	8	5.0 - v = -0.26	562x + 11.196	-		
Std Curve:	MPO test stand 60-60 new NK			-	3		= 0.9947		•	-
Started At:	3/2/2018 18:00			1		0.0	- 0.3347			
Number of Sites:	72					0 5	10 15 20	25 30	0 35	
Results Table							α		1	
Site ID	Protocol	Şample ID	Comple Time	Chabus	EAM SHATTER	Iran Ci	lo a nun	10.00		V 1 0
315	60 - 60		Sample Type STD	Status OK	FAM Std/Res 60900000	FAM Ct 12.33	Cy3 Std/Res	Cy3 Ct	Melt Peak1	Y=Log Cop
316	60 - 60		STD	ОК	6090000	16.64	0	27.00	79.47	7.8
21	60 - 60		STD	OK	609000	21,11	0	20.88	79.2	6.8
22	60 - 60		STD	OK					79.36	5.8
23	60 - 60		STD	OK	60900	24.45	0	The same and the same and the	79.32	4.8
34	60 - 60		STD	OK	6090	27.31	0		79.34	3.8
25	60 - 60	blank		UK	609	31.42		37.85	79.25	2.8
11	MPO - RADIANT SYBR 2017		UNKN	OK	645.312	31.50	ND	31.34	79.29	
12	MPO - RADIANT SYBR 2017		UNKN	OK	416.587	32.22	ND ND	31.28	79.16	
13	MPO - RADIANT SYBR 2017		UNKN	OK	745.584	31.27	ND	0	79.24	
4	MPO - RADIANT SYBR 2017	358	UNKN	OK	591.377	31.65	ND	31.1	79.24	
N5	MPO - RADIANT SYBR 2017 MPO - RADIANT SYBR 2017		UNKN	OK	552.923	31.76	ND	31.53	79.31	
17	MPO - RADIANT SYBR 2017	359	UNKN	OK OK	525.657 1796.114	31.84 29.83	ND ND	30.98	79.32	
18	MPO - RADIANT SYBR 2017	359	UNKN	OK	2128.677	29.83	ND ND	29.43 29.13	78.89 79.21	
19	MPO - RADIANT SYBR 2017		UNKN	OK	2217.772	29.49	ND ND	29.13	79.28	The second
(10	MPO - RADIANT SYBR 2017	361	UNKN	OK	29.258	36.55	ND	35.97	79.18	
11	MPO - RADIANT SYBR 2017		UNKN	OK	36.743	36.18	ND	36.3	79.28	
112	MPO - RADIANT SYBR 2017 MPO - RADIANT SYBR 2017	666	UNKN	OK	36.982	36.17	ND ND	36.09	79.13	
(14	MPO - RADIANT SYBR 2017	362	UNKN	OK OK	82.652 103.125	34.86	ND	34.67	79.23	
15	MPO - RADIANT SYBR 2017		UNKN	OK	107.922	34.50 34.42	ND ND	33.27 33.07	79.16 79.35	
16	MPO - RADIANT SYBR 2017	363	UNKN	OK	342.972	32.53	ND ND	32.25	79.31	
11	MPO - RADIANT SYBR 2017		UNKN	OK	375.666	32.39	ND	0	79.25	
2	MPO - RADIANT SYBR 2017		UNKN	OK	214.756	33.30	ND	31.59	79.21	
13	MPO - RADIANT SYBR 2017 MPO - RADIANT SYBR 2017	365	UNKN	OK	301.332	32.75	ND	33.86	79.31	
15	MPO - RADIANT SYBR 2017		UNKN	OK OK	267.734 283.642	32.94 32.84	ND ND	32.93 33.12	79.41 79.17	
16	MPO - RADIANT SYBR 2017	366	UNKN	OK	319.869	32.65	ND ND	32.26	79.17	\$ 11 TO
7	MPO - RADIANT SYBR 2017		UNKN	ОК	276.118	32.89	ND	32.33	79.17	
8	MPO - RADIANT SYBR 2017		UNKN	OK	282.458	32.85	ND	33.23	79.36	
19	MPO - RADIANT SYBR 2017 MPO - RADIANT SYBR 2017	367	UNKN	OK	948.423	30.88	ND	32.79	79.2	
111	MPO - RADIANT SYBR 2017		UNKN	OK OK	912.327	30.94	ND	32.57	79.12	
112	MPO - RADIANT SYBR 2017	369	UNKN	OK	924.748 218.768	30.92	ND ND	32.89	79.38	
13	MPO - RADIANT SYBR 2017		UNKN	OK	209.117	33.34	ND ND	33.21 32.98	79.26 79.21	
14	MPO - RADIANT SYBR 2017		UNKN	OK	164.816	33.73	ND	34.54	79.32	
15 16	MPO - RADIANT SYBR 2017	370	UNKN	OK	214.533	33.30	ND	32.27	79.14	
1	MPO - RADIANT SYBR 2017 MPO - RADIANT SYBR 2017		UNKN	OK	195.546	33.45	ND	33.29	79.41	
	MPO - RADIANT SYBR 2017	371	UNKN	OK OK	212.351 805.293	33.32 31.14	ND ND	32.63 30.66	79.28	
3	MPO - RADIANT SYBR 2017	0/1	UNKN	OK	706.822	31.35	ND ND	30.85	79.42 79.23	
4	MPO - RADIANT SYBR 2017		UNKN	OK	853.694	31.05	ND	30.41	79.29	
5	MPO - RADIANT SYBR 2017	379	UNKN	OK	669,3556	36,41	ND	31.09	79.3	
6	MPO - RADIANT SYBR 2017		UNKN	OK	664.4539	36.67	ND	30.96	79.21	
7	MPO - RADIANT SYBR 2017 MPO - RADIANT SYBR 2017	200	UNKN	OK OK	669.0931 551.88	36.60 34.64	ND ND	30.87	79.12	
2	MPO - RADIANT SYBR 2017	360	UNKN	OK	327.683	34.64	ND ND	28.49 27.65	78.82 78.84	
3	MPO - RADIANT SYBR 2017		UNKN	OK	231.01065	34.67	ND ND	27.65	78.73	
4	MPO - RADIANT SYBR 2017	381	UNKN	OK	12660.656	37.03	ND	27.51	78.77	
5 6	MPO - RADIANT SYBR 2017		UNKN	OK	11507.04	37.16	ND	28.56	78.53	
7	MPO - RADIANT SYBR 2017 MPO - RADIANT SYBR 2017	382	UNKN	OK	10002.198	37.49	ND ND	28.15	78.7	
8	MPO - RADIANT SYBR 2017	382	UNKN	OK OK	454.313 434.4	37.05 37.21	ND ND	33.23	79.04	
9	MPO - RADIANT SYBR 2017		UNKN	OK	605.783	37.06	ND ND	33.1 33.12	78.96 78.78	
10	MPO - RADIANT SYBR 2017	383	UNKN	OK	459.976	36.07	ND	33.23	78.91	
11	MPO - RADIANT SYBR 2017		UNKN	OK	270.276	36.18	ND	33.89	79.04	
12	MPO - RADIANT SYBR 2017		UNKN	OK	335.145	36.26	ND	33.59	79.21	
14	MPO - RADIANT SYBR 2017 MPO - RADIANT SYBR 2017	384	UNKN	OK	1506.613	38.20	ND ND	31.52	78.97	
15	MPO - RADIANT SYBR 2017		UNKN	OK OK	1446.257 1187.594	38.28 38.16	ND ND	30.57	78.91	-
16	MPO - RADIANT SYBR 2017	385	UNKN	OK	1162.386	37.64	ND ND	30.59 31.26	78.86 79.02	
1	MPO - RADIANT SYBR 2017	300	UNKN	OK	886.67	37.37	ND ND	0	79.02	
2	MPO - RADIANT SYBR 2017		UNKN	ОК	755.896	37.67	ND	31.5	79.12	
3	MPO - RADIANT SYBR 2017 MPO - RADIANT SYBR 2017	386	UNKN	OK OK	855,386 981,45	35.67 35.79	ND ND	33.71	78.97	-
								32.26	79.13	

Calculation

Gene of 1+Al:O86nte	erest	мро				The same of the								
ene of 1 AltObonte	citat	MPU	Unit	Formula		7,000				₩EL-1 W Noram	al Ovarian	-		-
Dalton - 1.66E-24 gr	rams	1.66E-24	ome	romuna		-		2.5000		MFT33	n Cancer (SKOV-3)			
ass of base pair	IMILIO	615	Da		No.			A 2.0000 -		M Ovarian	n Cancer (TOV112)			1
rg, Mass/base		305.25	Da					3		⊌ Overlan	n Cancer (A2780)	I		
							Section 18	£ 1.5000 -			1 1			
ength of entire gene		79	bases					1.0000						
lass in Daltons		2.41E+04	Da	- number base	es x avg, mass/b	ase		#			II.			1000
fass in grams		4.00E-20	g		mass of a Da in	grams	0.50	2 0.5000	-A -					
lass in ug	et.	4.00E-14	ug	- above / 10E-				0.0000						-
fass in ng		4.00E-11	ng/copy	- above x 10E3				(Control	5	20 100			-
									Tal	ic Treatment (ug/ml,7	2 hours)			-
/2/2018 18:00					20114	- L PALL	PALLET		Dil at	I I I				-
D	Sample	Copy#	ul cDNA used	copies/ul	ug RNA	ul cDNA	ug RNA/ul	copies/ug RNA	Dilution	copies/ul RNA x DF	fg/ul RNA	Normalized	Average	SD
57		645.312	3	cDNA	used	made	cDNA 0.025		Factor	8.60E+04	3.44E+00	3.36	0.3617	0.03
5/	EL1 5 ug/ml Talc	416.587	3	215.104 138.86233	0.5	20		5.55E+03	10	5.55E+04	2.22E+00	2.17	0.3017	0.00
		745.584	3	248.528	0.5	20		9.94E+03	10	9.94E+04	3.98E+00	3.88		1
58	EL1 20 ug/ml Talc	591.377	3	197.12567	0.5	20		7.89E+03	10	7.89E+04	3.16E+00	3.10	0.2926	0.01
	LLI 20 00 III 100	552.923	3	184.30767	0.5	20		7.37E+03	10	7.37E+04	2.95E+00	2.90	0.2020	1
		525.657	3	175.219	0.5	20		7.01E+03	10	7.01E+04	2.81E+00	2.75		
59	EL1 100 ug/ml Talc	1796.114	3	598.70467	0.5	20		2.39E+04	10	2.39E+05	9.59E+00	12.03	1,4554	0.04
		2128.677	3	709.559	0.5	20			10	2.84E+05	1.14E+01	14.26		
		2217.772	3	739.25733	0.5	20			10	2.96E+05	1.18E+01	14.85		
83	Normal Ovarian Unt 72 hr	39.258	3	13.086	0.5	20	0.025	5.23E+02	10	5.23E+03	2.10E-01	0.21	0.1974	0.01
		36.743	3	12.247667	0.5	20	0.025	4.90E+02	10	4.90E+03	1.96E-01	0.20		
		34.932	3	11.644	0.5	20	0.025	4.66E+02	10	4.66E+03	1.86E-01	0.19	10-10-120-0	
84	5 ug/ml	10.652	3	3.5506667	0.5	20	0.025	1.42E+02	10	1.42E+03	5.69E-02	0.05	0.0533	0.00
		10.123	3	3.3743333	0.5	20			10	1.35E+03	5.40E-02	0.05		
		10.932	3	3.644	0.5	20			10	1.46E+03	5.83E-02	0.06		-
85	20 ug/ml	14,972	3	4.9906667	0.5	20			10	2.00E+03	7.99E-02	0.08	0.0803	0.00
		17.666	3	5.8886667	0.5	20			10	2.36E+03	9.43E-02	0.09		1
		14.756	3	4.9186667	0.5	20			10	1.97E+03	7.88E-02	0.08		
36	100 ug/ml	50.332	3	16.777333	0.5	20			10	6.71E+03	2.69E-01	0.24	0.2336	0.00
		46.734	3	15.578	0.5	20			10	6.23E+03	2.49E-01	0.22		-
		48.642	3	16.214	0.5	20			10	6.49E+03	2.60E-01	0.23		-
79	FT33 Unt 72 hr	31.869	3	10.623	0.5	20	0.025		10	4.25E+03	1.70E-01	0.17	0.1483	0.00
		27.118	3	9.0393333	0.5	20			10	3.62E+03	1.45E-01	0.14		
		28.458	3	9.486	0.5	20			10	3,79E+03	1.52E-01	0.15		-
80	5 ug/ml Talc	94.423	3	31.474333	0.5	20			10	1.26E+04	5.04E-01	0.30	0.2927	0.00
		91.327	3	30.442333	0.5	20		1.22E+03	10	1.22E+04	4.87E-01	0.29		-
		92.748	3	30.916	0.5	20		1.24E+03	10	1.24E+04	4.95E-01	0.29		
81	20 ug/ml Talc	21.768	3	7.256	0.5	20			10	2.90E+03	1.16E-01	0.06	0.0514	0.00
	9	20.117	3	6.7056667	0.5	20			10	2.68E+03	1.07E-01	0.05		-
		16.444	3	5.4813333	0.5	20			10	2.19E+03	8.78E-02	0.04		+
82	100 ug/ml Talc	21.533	3	7.1776667	0.5	20			10	2.87E+03	1.15E-01	0.11	0.1111	0.00
		19.562	3	6.5206667	0.5	20			10	2.61E+03	1.04E-01	0.10		
		21.351	3	7.117	0.5	20			10	2.85E+03	1.14E-01	0.11	2.77	0.00
61	SKOV 5 ug/ml	29.258	3	9.7526667	0.5	20		3.90E+02	10	3.90E+03 4.90E+03	1.56E-01	0.15	0.1745	0.02
		36.743 36.982	3	12.247667	0.5	20		4.90E+02 4.93E+02	10	4.93E+03	1.96E-01 1.97E-01	0.19		+
00	20 control	82.652		12.327333 27.550667	0.5	20		1.10E+03	10	1.10E+04	1.97E-01 4.41E-01	0.40	0.5075	0.06
52	20 ug/ml	103.125	3	34.375	0.5	20		1.38E+03	10	1.38E+04	5.50E-01	0.50	0.5075	0.00
	***	107.922	3	35.974	0.5	20		1.44E+03	10	1.44E+04	5.76E-01	0.52		1
83	100 ug/ml	342.972	3	114.324	0.5	20		4.57E+03	10	4.57E+04	1.83E+00	1.83	1.9178	0.12
	100 09111	375.666	3	125.222	0.5	20			10	5.01E+04	2.01E+00	2.01	1.0110	1
or could be a series		214.756	3	71.585333	0.5	20			10	2.86E+04	1.15E+00	1.15		
35	TOV112 5 ug/ml Talc	301.332	3	100,444	0.5	20			10	4.02E+04	1.61E+00	0.80	0.7513	0.04
		267.734	3	89.244667	0.5	20	0.025		10	3.57E+04	1.43E+00	0.71		4
		283.642	3	94.547333	0.5	20			10	3.78E+04	1.51E+00	0.75	100	
36	TOV112 20 ug/ml Talc	319.869	3	106.623	0.5	20	0.025	4.26E+03	10	4.26E+04	1.71E+00	1.71	1.4907	0.02
		276.118	3	92.039333	0.5	20	0.025	3.68E+03	10	3.68E+04	1.47E+00	1.47		
		282.458	3	94.152667	0.5	20		3.77E+03	10	3.77E+04	1.51E+00	1.51	-	
57	TOV112 100 ug/ml Talc	948.423	3	316.141	0.5	20		1.26E+04	10	1.26E+05	5.06E+00	2.12	2.0731	0.04
		912.327	3	304.109	0.5	20		1.22E+04	10	1.22E+05	4.87E+00	2.04		-
		924.748	3	308.24933	0.5	20		1.23E+04	10	1.23E+05	4.94E+00	2.06		-
59	A2780 5 ug/ml	218.768	3	72.922667	0.5	20		2.92E+03	10	2.92E+04	1.17E+00	0.58	0.5645	0.01
		209.117		69.705667	0.5	20		2.79E+03	10	2.79E+04	1.12E+00 8.80E-01	0.55		-
10	20 unimi	164.816	3	54.938667	0.5	20		2.20E+03 2.86E+03	10	2.20E+04 2.86E+04		0.43	0.7924	0.03
0	20 ug/ml	214.533 195.546	3	71.511 65.182	0.5	20			10	2.86E+04 2.61E+04	1.15E+00 1.04E+00	0.75	0.7924	0.00
		212.351	3	70.783667		20			10	2.83E+04	1.13E+00	0.81	-	1
1	100 ug/ml	805.293	3	268.431	0.5	20			10	1.07E+05	4.30E+00	1.85	1,9039	0.07
·	100	706.822	3	235.60733	0.5	20	0.025		10	9.42E+04	3.77E+00	1.62		0.01
		853.694		284.56467		20			10	1.14E+05	4.56E+00	1,96		1
6	EL1 unt	669.355		223.11833		20			10	8.92E+04	3.57E+00	1.46	0.1460	0.00
		664.453	3	221.48433		20	0.025		10	8.86E+04	3.55E+00	1.45		
		669.093		223.031	0.5	20			10	8.92E+04	3.57E+00	1.46	No. of Contract	
0	SKOV-3 unt	454.313		151.43767	0.5	20			10	6.06E+04	2.42E+00	0.23	0.2242	0.00
		434.4		144.8	0.5	20	0.025		10	5.79E+04	2.32E+00	0.22		1
		605.783		201.92767	0.5	20			10	8.08E+04	3.23E+00	0.31		
8	A2780 unt	1162.386		387.462	0.5	20	0.025	1.55E+04	10	1.55E+05	6.20E+00	0.62	0.4384	0.04
		886.67	3	295.55667	0.5	20	0.025	1.18E+04	10	1.18E+05	4.73E+00	0.47	100	
		755.896	3	251.96533		20	0.025		10	1.01E+05	4.03E+00	0.40		69
84	TOV112 unt	1305.857	3	435.28567	0.5	20	0.025		10	1.74E+05	6.97E+00	0.41	0.3211	0.01
		1049.829		349.943	0.5	20			10	1.40E+05	5.60E+00	0.33	Bright of Co.	1000
						20			10	1.32E+05	5.27E+00	0.31		

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3/2/2018

Run PCR - QPX Samples

Run Summ		10.0	1				
Run Name:				-	•		
Std Curve: Started At:		5.0			-		
Number of	3/2/2018 14:44			231x + 11.391 = 0.9951		-	
Training of	/2	0.0		1 1		-	
Results Tat			5	10 15	20 25 30	35	40
Site ID A1	Protocol GSTp1 - RADIANT SYBR 201	Sample ID	Sample T		FAM Std/Res	FAM Ct	Melt Peak1
A2	GSTp1 - RADIANT SYBR 201		8 STD 7 STD	OK OK	60800000		82.73 82.77
A3	GSTp1 - RADIANT SYBR 201		6 STD	OK	6080000		82.76
A4 A5	GSTp1 - RADIANT SYBR 201		5 STD	OK	608000		82.3
A6	GSTp1 - RADIANT SYBR 201 GSTp1 - RADIANT SYBR 201		4 STD 3 STD	OK OK	60800	24.74	82.72
A7	GSTp1 - RADIANT SYBR 201		2 STD	OK	608	28.15 31.71	82.87 82.84
B1 B2	GSTp1 - RADIANT SYBR 201		7 UNKN	ОК	668201.923	20.84	82.11
B3	GSTp1 - RADIANT SYBR 201 GSTp1 - RADIANT SYBR 201		UNKN	OK OK	666753.61 671705.856	20.84	82.95
B4	GSTp1 - RADIANT SYBR 201		BUNKN	lok	206839.922	22.63	82.07 82.88
B5 B6	GSTp1 - RADIANT SYBR 201		UNKN	OK	230366.035	22.46	82.87
B7	GSTp1 - RADIANT SYBR 201 GSTp1 - RADIANT SYBR 201		UNKN	OK OK	210731.99 64785.937	22.60	82.1
B8	GSTp1 - RADIANT SYBR 201	8	UNKN	OK	65867.594	24.40 24.38	82.1 82.75
B9	GSTp1 - RADIANT SYBR 201		UNKN	ОК	65675.403	24.38	82
B10 B11	GSTp1 - RADIANT SYBR 201 GSTp1 - RADIANT SYBR 201	8 36	UNKN	OK OK	508032.78 479704.249	21.25	82
B12	GSTp1 - RADIANT SYBR 201	8	UNKN	OK	488208.949	21.34 21.32	82.16 82.97
B13 B14	GSTp1 - RADIANT SYBR 201	362	UNKN	OK	277671.948	22.18	82.91
	GSTp1 - RADIANT SYBR 201 GSTp1 - RADIANT SYBR 201		UNKN	OK OK	285591.813	22.14	82.03
B16	GSTp1 - RADIANT SYBR 201	363	BUNKN	OK	257832.145 195790.778	22.29 22.71	82.9 82.06
	GSTp1 - RADIANT SYBR 201	8	UNKN	OK	174633.209	22.89	82.13
	GSTp1 - RADIANT SYBR 2010 GSTp1 - RADIANT SYBR 2010		UNKN	OK OK	193958.071 382147.473	22.73	82.87
A4	GSTp1 - RADIANT SYBR 201	300	UNKN	OK	382528.579	21.69 21.69	82.17 82.13
	GSTp1 - RADIANT SYBR 2018		UNKN	OK	381507.876	21.69	82.15
A6 A7	GSTp1 - RADIANT SYBR 201 GSTp1 - RADIANT SYBR 201	366	UNKN	OK OK	165461.759	22.97	82.02
A8	GSTp1 - RADIANT SYBR 2018		UNKN	OK	142225.778 148812.529	23.20	82.06 82.1
	GSTp1 - RADIANT SYBR 201		UNKN	OK	199402.777	22.68	82.04
	GSTp1 - RADIANT SYBR 2018 GSTp1 - RADIANT SYBR 2018		UNKN	OK OK	128707.691	23.35	82.91
A12	GSTp1 - RADIANT SYBR 201	369	UNKN	OK	187371.231 454082.582	22.78	82.29 82.02
A13	GSTp1 - RADIANT SYBR 2018		UNKN	OK	411760.96	21.58	82.2
	GSTp1 - RADIANT SYBR 2018 GSTp1 - RADIANT SYBR 201		UNKN	OK OK	439283.754	21.48	82.14
A16	GSTp1 - RADIANT SYBR 2018		UNKN	OK	185507.125 199908.926	22.80 22.68	82.17 82.1
01	GSTp1 - RADIANT SYBR 2018		UNKN	OK	150814.91	23.11	82.19
	GSTp1 - RADIANT SYBR 201 GSTp1 - RADIANT SYBR 2018		UNKN	OK	90033,388	23.90	82.12
24	GSTp1 - RADIANT SYBR 2018		UNKN	OK OK	92582.039 77597.643	23.86	82.19 82.01
	GSTp1 - RADIANT SYBR 201	379	UNKN	OK	812750.693	22.97	82.21
	GSTp1 - RADIANT SYBR 2018 GSTp1 - RADIANT SYBR 2018		UNKN	OK OK	803430.814	23.20	82.21
31 (GSTp1 - RADIANT SYBR 201		UNKN	OK	832511.564 600285.246	23.13	82.79 82.09
	GSTp1 - RADIANT SYBR 2018		UNKN	OK	562024.568	22.48	82.88
	GSTp1 - RADIANT SYBR 2018 GSTp1 - RADIANT SYBR 201		UNKN	OK	1175903.995	22.13	82.04
35 (GSTp1 - RADIANT SYBR 2018		UNKN	OK OK	718719.203 680134.125	22.73	82.99 82.91
36	GSTp1 - RADIANT SYBR 2018		UNKN	OK	572473.147	22.76	82.96
37 (38 (38 (38 (38 (38 (38 (38 (38 (38 (38	GSTp1 - RADIANT SYBR 201 GSTp1 - RADIANT SYBR 2018	382	UNKN	OK	105507.125	23.66	82.96
39 (GSTp1 - RADIANT SYBR 2018		UNKN	OK OK	109908.926 90980.998	23.60	82.55 82.94
310	GSTp1 - RADIANT SYBR 201	383	UNKN	OK	1051419.196	21.25	82.98
	GSTp1 - RADIANT SYBR 2018 GSTp1 - RADIANT SYBR 2018		UNKN	OK	838587.722	21.34	82.03
313	GSTp1 - RADIANT SYBR 201		UNKN	OK OK	945596.546 800078.097	21.32	82.02 82.94
14 (GSTp1 - RADIANT SYBR 2018		UNKN	OK	851661.834	21.68	82.9
	GSTp1 - RADIANT SYBR 2018 GSTp1 - RADIANT SYBR 201		UNKN	OK	706709.075	21.79	82.97
1 (GSTp1 - RADIANT SYBR 2018	385	UNKN	OK OK	503377.481 291290.52	22.97	82.17 82.15
2	GSTp1 - RADIANT SYBR 2018		UNKN	OK	221345.011	22.73	82.15
	GSTp1 - RADIANT SYBR 201 GSTp1 - RADIANT SYBR 2018	386	UNKN	OK	333584.129	23.31	82.06
5 (GSTp1 - RADIANT SYBR 2018		UNKN	OK OK	344466.658 348884.247	23.31	82.19 82.14
7 (SSTp1 - RADIANT SYBR 202	364	UNKN	OK	238896.626	22.41	82.2
	GSTp1 - RADIANT SYBR 2021 GSTp1 - RADIANT SYBR 2022		UNKN	OK	189277.851	22.76	82.09
	STp1 - RADIANT SYBR 2022		UNKN	OK OK	246310.592 981714.39	22.36	83.18
11 (SSTp1 - RADIANT SYBR 2024		UNKN	OK	970207.832	20.25	82.16 82.09
	STp1 - RADIANT SYBR 2025		UNKN	OK	1098811.105	20.07	83.34
	GSTp1 - RADIANT SYBR 202 GSTp1 - RADIANT SYBR 2027		UNKN	OK OK	812750.693	20.54	82.09
-	STp1 - RADIANT SYBR 2028		UNKN	OK	803430.814 832511.564	20.55	82.52 82.11
16 G	SSTp1 - RADIANT SYBR 202 SSTp1 - RADIANT SYBR 2030	368	UNKN	OK OK	503377.481 291290.52	21.27	82.91 82.12

Case 3:16-md-02738-MAS-RLS Document 9738-1 Filed 05/07/19 Page 24 of 48 PageID:

Accession#	Gene	Sequence	40895 Fwd Primer			/Amplico n Length	Start Position
NM_000581		GGACTACACCCAGATGAACGAGCTGCAGCGGCGCCT CGGACCCCGGGGCCTGGTGGTGCTCGGCTTCCCGTG CAACCAGTTTGGGCATCAGGAGAA	GGACTACACCCAGATGAAC	TTCTCCTGATGCCCAAAC	100	100	242
500		Comples 2th on 2th	0	Initial tir (s) at 95		Control of the Contro	
		Primer information	& Calculo	ition 60	15	10, 6	30, 72

Gene o	of Interest	GPX		Г		T		т						
1.000			Unit	Formula		-	-							
	n = 1.66E-24 grams	1.66E-24	g	Tormula				6.00]					EL-1 Vormal Ovarian	
	f base pair	615	Da					¥ 5.00 -		I.		M.	T33 Ovarian Cancer (SK)	01/-23
wg. M	ass/base	305.25	Da					3 4.00				<u>u</u> (Ovarian Cancer (TO	V112)
ength	of entire gene	100	L					9		J. J.		u c	Ovarian Cancer (A2	780)
	n Daltons	3.05E+04	bases Da	- humb - L				5 3.00 -		1	, III			
	grams	5.07E-20	g		s x avg. mass/ba mass of a Da in			- 8 2.00 -			2	1		
dass in		5.07E-14	ug	*above/10E-6		grams	-	¥ 1.00					T,	.T. Z.
dass in	ng	5.07E-11	ng/copy	- above x 10E3									100	-
D	Sample	Copy#	ul cDNA	copies/ul				0.00	Contr	of	5	20		
STp1	- RADIANT SYBR 2018		used	cDNA		-					Talc Treatment (u	g/ml,72 hours)		100
D			ul cDNA	copies/ul		-1-DATA	DATE OF							
	Sample	Сору#	used	cDNA	ug RNA used	ul cDNA made	ug RNA/ul cDNA	copies/ug RNA	Dilution Factor	cDNA x DF	pg/ul RNA	Normalized	Average	SI
57	EL1 5 ug/ml Talc	468201.923	3	156067.308	0.5	20		6.24E+06	10	6.24E+07	3.16E+00	3.08	3.42	0.3
		366753.61 571705.856	3	122251.203	0.5	20		4.89E+06	10	4.89E+07	2.48E+00	2.41	0.42	1 0.0
58	EL1 20 ug/ml Talc	326839.922	3	190568.619 108946.641	0.5	20		7.62E+06	10	7.62E+07	3.86E+00			
		370366.035	3	123455.345	0.5	20		4.36E+06	10	4.36E+07	2.21E+00		2.47	0.0
		360731.99	3	120243.997	0.5	20		4.94E+06 4.81E+06	10	4.94E+07	2.50E+00	2.46		133
9	EL1 100 ug/ml Talc	114785.937	3	38261.979	0.5	20		1.53E+06	10	4.81E+07 1.53E+07	2.44E+00	2.39		
-		125867.594	3	41955.8647	0.5	20	0.025	1.68E+06	10	1.68E+07	7.76E-01 8.50E-01	0.97 1.07	0.81	0.0
13	Normal Ovarian Unt 72 hr	195675.403	3	65225.1343	0.5	20	0.025	2.61E+06	10	2.61E+07	1.32E+00	1.66	-	-
	John Granari Ont /2 Nr	508032,78 479704.249	3	169344.26	0.5	20	0.025	6.77E+06	10	6.77E+07	3.43E+00	3.43	3.27	0.0
		488208.949	3	159901.416	0.5	20	0.025	6.40E+06	10	6.40E+07	3.24E+00	3.24		0.0
4	5 ug/ml	377671.948	3	162736.316 125890.649	0.5	20	0.025	6.51E+06	10	6.51E+07	3.30E+00	3.30		
		385591.813	3	128530.604	0.5	20	0.025	5.04E+06	10	5.04E+07	2.55E+00	2.41	2.58	0.0
S. E.V.		357832.145		119277.382	0.5	20	0.025	5.14E+06 4.77E+06	10	5.14E+07	2.61E+00	2.46		
5	20 ug/ml	165790.778	3	55263.5927	0.5	20	0.025	2.21E+06	10	4.77E+07 2.21E+07	2.42E+00	2.28		
-		174633.209	3	58211.0697	0.5	20	0.025	2.33E+06	10	2.21E+07 2.33E+07	1.12E+00 1.18E+00	1.07	1.15	0.0
3	100 ((a/m)	193958.071		64652.6903	0.5	20	0.025	2.59E+06	10	2.59E+07	1.18E+00 1.31E+00	1.12		-
	100 ug/ml	132147.473	3	44049.1577	0.5	20	0.025	1.76E+06	10	1.76E+07	8.93E-01	0.80	0.89	0.0
110		132528.579	3	44176.193	0.5	20	0.025	1.77E+06	10	1.77E+07	8.95E-01	0.80	0.09	0.0
	FT33 Unt 72 hr	131507.876 465461.759	3	43835.9587	0.5	20	0.025	1.75E+06	10	1.75E+07	8.88E-01	0.80		
		442225.778	3	155153.92 147408.593	0.5	20	0.025	6.21E+06	10	6.21E+07	3.14E+00	3.14	3.01	0.0
		448812.529	3	149604.176	0.5	20	0.025	5.90E+06	10	5.90E+07	2.99E+00	2.99		
	5 ug/ml Talc	299402.777	-	99800.9257	0.5	20	0.025	5.98E+06	10	5.98E+07	3.03E+00	3.03		
		228707.691	3	76235.897	0.5	20	0.025	3.99E+06 3.05E+06	10	3.99E+07	2.02E+00	1.20	1.98	0.0
_		287371.231		95790.4103	0.5	20	0.025	3.83E+06	10	3.05E+07 3.83E+07	1.55E+00	0.91		
	20 ug/ml Talc	194082.582	3	64694.194	0.5	20	0.025	2.59E+06	10	2.59E+07	1.94E+00 1.31E+00	0.65	4.00	
-		211760.96		70586.9867	0.5	20	0.025	2.82E+06	10	2.82E+07	1.43E+00	0.65	1.30	0.02
	100 ug/ml Talc	189283.754		63094.5847	0.5	20	0.025	2.52E+06	10	2.52E+07	1.28E+00	0.63		
-		105507.125 109908.926		35169.0417	0.5	20	0.025	1.41E+06	10	1.41E+07	7.13E-01	0.71	0.71	0.02
* 110		90980.998		36636.3087 30326.9993	0.5	20	0.025	1.47E+06	10	1.47E+07	7.43E-01	0.74		0.02
	SKOV 5 ug/ml	508032.78		169344.26	0.5	20	0.025	1.21E+06	11	1.33E+07	6.76E-01	0.68		
		479704.249		159901.416	0.5	20	0.025	6.77E+06 6.40E+06	10	6.77E+07	3.43E+00	1.44	3.27	0.04
		488208.949		162736.316	0.5	20	0.025	6.51E+06	10	6.40E+07 6.51E+07	3.24E+00	1.36		
SVIV	20 ug/ml	277671.948	3	92557.316	0.5	20	0.025	3.70E+06	10	3.70E+07	3.30E+00	1.38	100	-
200.00		285591.813	3	95197.271	0.5	20	0.025	3.81E+06	10	3.70E+07 3.81E+07	1.88E+00 1.93E+00	1.88	1.90	0.04
	100 ug/ml	257832.145		35944.0483	0.5	20	0.025	3.44E+06	10	3.44E+07	1.74E+00	1.74	-	-
		195790.778 174633.209		55263.5927	0.5	20	0.025	2.61E+06	10	2.61E+07	1.32E+00	0.65	1.25	0.10
		193958.071		58211.0697 54652.6903	0.5	20	0.025	2.33E+06	10	2.33E+07	1.18E+00	0.58		0.10
	TOV112 5 ug/ml Talc	382147.473	-	27382.491	0.5	20	0.025	2.59E+06	10	2.59E+07	1.31E+00	0.65		
		382528.579		27509.526	0.5	20	0.025	5.10E+06 5.10E+06	10	5.10E+07	2.58E+00	1.85	2.58	0.00
		381507.876	STREET, SQUARE, SQUARE	27169.292	0.5	20	0.025	5.10E+06 5.09E+06	10	5.10E+07 5.09E+07	2.58E+00	1.85		
	TOV112 20 ug/ml Talc	165461.759	3 5	5153.9197	0.5	20	0.025	2.21E+06	10	2.21E+07	2.58E+00 1.12E+00	1.84	200	0.00
-		142225.778	3 4	7408.5927	0.5	20	0.025	1.90E+06	10	1.90E+07	9.61E-01	0.48	0.98	0.03
	TOV112 100 ug/ml Talc	148812.529		9604.1763	0.5	20	0.025	1.98E+06	10	1.98E+07	1.01E+00	0.43		
	THE TOO USHINI TRIC	199402.777 128707.691		6467.5923	0.5	20	0.025	2.66E+06	10	2.66E+07	1.35E+00	1.07	1.31	0.06
		187371.231		2902.5637	0.5	20	0.025	1.72E+06	10	1.72E+07	8.70E-01	0.69		
	A2780 5 ug/mi	454082.582		51360.861	0.5	20	0.025	2.50E+06	10	2.50E+07	1.27E+00	1.01		
4		411760.96		37253.653	0.5	20	0.025	6.05E+06 5.49E+06	10	6.05E+07	3.07E+00	2.95	3.02	0.07
		439283.754	-	46427.918	0.5	20	0.025	5.86E+06	10	5.49E+07 5.86E+07	2.78E+00	2.68		
-	20 ug/ml	185507.125	3 6	1835.7083	0.5	20	0.025	2.47E+06	10	2.47E+07	2.97E+00 1.25E+00	2.85	100	
		199908.926	3 6	6636.3087	0.5	20	0.025	2.67E+06	10	2.67E+07	1.25E+00 1.35E+00	1.20	1.30	0.07
	100 ug/ml	150814.91		0271.6367	0.5	20	0.025	2.01E+06	10	2.01E+07	1.02E+00	0.98		
1	ugrin	90033.388		0011.1293	0.5	20	0.025	1.20E+06	10	1.20E+07	6.08E-01	0.22	0.62	0.01
		92582.039 77597.643		0860.6797	0.5	20	0.025	1.23E+06	10	1.23E+07	6.26E-01	0.23		0.01
	EL1 unt	812750.693		70016 809	0.5	20	0.025	1.03E+06	10	1.03E+07	5.24E-01	0.19	100000000000000000000000000000000000000	4
		803430.814		70916.898 67810.271	0.5	20	0.025	1.08E+07	10	1.08E+08	5.49E+00	5.35	5.46	0.04
		832511.564	THE RESERVE OF THE PERSON NAMED IN	77503.855	0.5	20	0.025	1.07E+07	10	1.07E+08	5.43E+00	5.29		
	SKOV-3 unt	381714.39		27238.13	0.5	20	0.025	1.11E+07	10	1.11E+08	5.62E+00	5.48		
		370207.832		23402.611	0.5	20	0.025	5.09E+06 4.94E+06	20	1.02E+08	5.16E+00	4.87	5.08	0.11
		398811.105		32937.035	0.5	20	0.025	5.32E+06	20	9.87E+07	5.00E+00	4.73		
-	A2780 unt	503377.481		57792.494	0.5	20	0.025	6.71E+06	20	1.06E+08 1.34E+08	5.39E+00	5.09	2.40	-
-		291290.52	3 9	97096.84	0.5	20	0.025		20	7.77E+07	6.80E+00 3.94E+00	6.80 3.94	3.46	0.47
	TOV/112 upt	221345.011		3781.6703	0.5	20	0.025	2.95E+06	20	5.90E+07	3.94E+00 2.99E+00	2.99		-
	TOV112 unt	238896.626		632.2087	0.5	20	0.025		20	6.37E+07	3.23E+00	1.91	3.28	0.07
		189277.851		3092.617	0.5	20	0.025		20	5.05E+07	2.56E+00	1.51	0.20	0.07
		246310.592	3 82	2103.5307	0.5	20	0.025		20	6.57E+07				

3/2/2018

Run PCR - SOD3 with Samples 356 ~ 386 Product Standar /Amplico d Length n Length **Rev Primer** Sequence
GCGGTAGCACCAGCACTAGCAGCATGTTGAGCCGGG
CAGTGTGCGGCACCAGCAGCAGCAGCTGGCTCCGGTTT Fwd Primer Gene GCGGTAGCACCAGCACTA GGAGCCCAGATACCCCAA 85 TGGGGTATCTGGGCTCC NM_000636 SOD3 extension Anneal time (s) Initial time (s) at 95 C time (s) Melt time Primer information at 95 C and temp Start Position 10, 60 30, 72 132 60 15

un Name:	SOD 3ul 10x talc					9 5.0y	12 222 CV 122 2 VV	-	10	
d Curve:	SOD test stand 60-60 new NK					5.0y	-0.2754x + 10.326		+-+	
arted At:	3/2/2018 18:00			1		9 0.0	R ² = 0.9986			
imber of Sites:	72			-	-	-	5 10	15	20 25	30
								Ct		-
sults Table				-						-
e ID	Protocol	Sample ID	Sample Type	Status	FAM Std/Res	FAM Ct	COS CHIPOS TO	201		
5	60 - 60		STD	OK	610000000	PAMICE C		y3 Ct	- And the last of	Melt Peak1
6	60 - 60		STD	OK	67000000			0		86. 86
	60 - 60		STD	OK	6099999.5	12.75		16.88		86.
	60 - 60		STD	OK	610000	16.52		20.46		86.
	60 - 60	4	STD	OK	61000	20.15		23.88	100	86.
	60 - 60		STD	OK	6100	24.06		27.62		86.
	60 - 60		STD	OK	610	27.11	0	30.8		85.
	SOD - RADIANT SYBR 2017	356	UNKN	OK	7693.556	23.38	0	31.34		85.
	SOD - RADIANT SYBR 2018		UNKN	OK	7644.539	23.39	0	31.34		85.
	SOD - RADIANT SYBR 2019 SOD - RADIANT SYBR 2020	0.53	UNKN	OK	7690.931	23.38	0	31.34		85.
	SOD - RADIANT STBR 2020 SOD - RADIANT SYBR 2017	357	UNKN	OK	6645.312	23.61	ND	31.34		86.3
	SOD - RADIANT SYBR 2017		UNKN	OK	6416.587	23.67	ND	31.28		86.
	SOD - RADIANT SYBR 2017	250	UNKN	OK OK	6745.584	23.59	ND	0		86.
	SOD - RADIANT SYBR 2017	300	UNKN	OK	2591.377 2552.923	25.10	ND	31.1		86.3
	SOD - RADIANT SYBR 2017		UNKN	OK	2525.657	25.12 25.14	ND ND	31.53		86
	SOD - RADIANT SYBR 2017	359	UNKN	OK	796.114	26.96	ND ND	29.43		86.3
	SOD - RADIANT SYBR 2017	300	UNKN	OK	728.677	27.10	ND	29.43	-	86.3 85.8
	SOD - RADIANT SYBR 2017		UNKN	OK	717.772	27.12	ND	29.44		86.2
0	SOD - RADIANT SYBR 2018	360	UNKN	OK	1454.313	26.01	ND	30.44		86.2
1	SOD - RADIANT SYBR 2019		UNKN	OK	1434.403	26.03	ND	31,44		86.2
2	SOD - RADIANT SYBR 2020		UNKN	OK	1605.783	25.85	ND	32.44		86.2
0	SOD - RADIANT SYBR 2017	361	UNKN	OK	1239.258	26.26	ND	35.97		86.2
1	SOD - RADIANT SYBR 2017		UNKN	OK	1316.749	26.17	ND	36.3		86.1
2	SOD - RADIANT SYBR 2017		UNKN	OK	1368.982	26.11	ND	36.09		86.2
3 4	SOD - RADIANT SYBR 2017 SOD - RADIANT SYBR 2017	362	UNKN	OK	826.5135	26.90	ND	34.67		86.1
5	SOD - RADIANT SYBR 2017		UNKN	OK	1038.125	26.54	ND	33.27		86.0
6	SOD - RADIANT SYBR 2017	202	UNKN	OK	1071.519	26.49	ND	33.07		86.1
	SOD - RADIANT SYBR 2017	303	UNKN	OK	342.972	28.29	ND	32.25	-	86.3
	SOD - RADIANT SYBR 2017		UNKN	OK OK	375.666	28.15	ND	0		86.3
	SOD - RADIANT SYBR 2018	364	UNKN	OK	214.756 2305.857	29.03	ND	31.59		86.2
	SOD - RADIANT SYBR 2019	304	UNKN	OK	2549.829	25.28 25.13	ND ND	32.59		86.2
	SOD - RADIANT SYBR 2020		UNKN	OK	2986.582	24.88	ND	33.59	-	86.2
	SOD - RADIANT SYBR 2017	365	UNKN	OK	1801.332	25.67	ND	33.86		86.2 86.2
	SOD - RADIANT SYBR 2017		UNKN	ОК	1967.734	25.53	ND	32.93	-	86.3
	SOD - RADIANT SYBR 2017		UNKN	OK	1983.642	25.52	ND	33.12		86.4
	SOD - RADIANT SYBR 2017	366	UNKN	ОК	931.869	26.71	ND	32.26		86.1
	SOD - RADIANT SYBR 2017		UNKN	OK	727.118	27.10	ND	32.33		86.1
	SOD - RADIANT SYBR 2017		UNKN	OK	828.458	26.90	ND	33.23		86.1
^	SOD - RADIANT SYBR 2017		UNKN	OK	348.423	28,26	ND	32.79	TE COLUMN	86.3
1	SOD - RADIANT SYBR 2017		UNKN	OK	312.327	28.44	ND	32.57		86.
	SOD - RADIANT SYBR 2017		UNKN	OK	324.748	28.37	ND	32.89		86.3
3	SOD - RADIANT SYBR 2018 SOD - RADIANT SYBR 2019		UNKN	OK	324.748		ND	33.89		86.3
	SOD - RADIANT SYBR 2020		UNKN	OK	324.748		ND	34.89		86.3
	SOD - RADIANT SYBR 2017		UNKN	OK OK	324.748		ND	35.89		86.3
3	SOD - RADIANT SYBR 2017		UNKN	OK	2218.768 2209.117		ND	33.21	-	86.2
	SOD - RADIANT SYBR 2017		UNKN	ОК	2388.2943		ND ND	32.98		86.2
5	SOD - RADIANT SYBR 2017		UNKN	OK	1014.533		ND ND	34.54 32.27		86.1 86.1
3	SOD - RADIANT SYBR 2017		UNKN	OK	1095.239		ND	33.29		86.3
	SOD - RADIANT SYBR 2017		UNKN	OK	1112.351		ND	32.63		86.4
	SOD - RADIANT SYBR 2017		UNKN	OK	805.293		ND	30.66	-	86.2
	SOD - RADIANT SYBR 2017		UNKN	OK	706.822		ND	30.85	THE PERSON	86.4
	SOD - RADIANT SYBR 2017		UNKN	OK	853.694		ND	30.41		86.2
	SOD - RADIANT SYBR 2017		UNKN	OK	7693.556	25.09	ND	31.09	-	86.2
	SOD - RADIANT SYBR 2017		UNKN	ОК	7644.539		ND	30.96		86.
	SOD - RADIANT SYBR 2017		UNKN	OK	7690.931		ND	30.87		86.2
	SOD - RADIANT SYBR 2017 SOD - RADIANT SYBR 2017		UNKN	OK	7155.188		ND	28.49		86.5
	SOD - RADIANT SYBR 2017		UNKN	OK	7276.83		ND	27.65		86.2
	SOD - RADIANT SYBR 2017		UNKN	OK OK	7101.065		ND	0		86.4
	SOD - RADIANT SYBR 2017		UNKN	OK	12660.656		ND	27.51		86.2
	SOD - RADIANT SYBR 2017		UNKN	OK OK	11507.04 10002.198		ND ND	28.56		86.1
	SOD - RADIANT SYBR 2017		UNKN	OK	454.313		ND ND	28.15 33.23		86.3
	SOD - RADIANT SYBR 2017		UNKN	OK	434.4		ND ND	33.23		86.3 86.3
Annual Control of the	SOD - RADIANT SYBR 2017		UNKN	OK	605.783		ND	33.12		86.5
	SOD - RADIANT SYBR 2017		UNKN	OK	459.976		ND	33.23		86.2
	SOD - RADIANT SYBR 2017		UNKN	OK	270.276		ND	33.89		86.3
	SOD - RADIANT SYBR 2017		JNKN	OK	335.145		ND	33.59	-	86.4
	SOD - RADIANT SYBR 2017	384	UNKN	OK	1506.613		ND	31.52		86.5
	SOD - RADIANT SYBR 2017		JNKN	OK	1446.257		ND	30.57		86.:
	SOD - RADIANT SYBR 2017		JNKN	OK	1187.594		ND	30.59		86.1
	SOD - RADIANT SYBR 2017		JNKN	OK	3162.386	26.72	ND	31.26		86.5
	SOD - RADIANT SYBR 2017		JNKN	OK	2886.67		ND	0	N - 2 10	86.2
	SOD - RADIANT SYBR 2017		JNKN	OK	2755.896		ND	31.5		86.2
	SOD - RADIANT SYBR 2017		JNKN	OK	2855.386		ND	33.71		86.3
	SOD - RADIANT SYBR 2017 SOD - RADIANT SYBR 2017		JNKN	OK	2981.45		ND	32.26	14-1-1-1	86.1
The second secon	1000 - MOUNTH 010K 2017		JNKN	OK	3212.295	27.99	ND	31.88		86.4

Calculation

Gene of Interest		SOD3	Unit	-	-						L-1 foremail Overlan 133 Vverlan Cancer (SKO) Overlan Cancer (TOV:	-	-	-
Dalton = 1.66E-2	24 grams	1.66E-24	Unit		-	-	50.000]			un ur	roremat Overlan T33	-	-	
ass of base pair	r gams	615	Da		-	- E	40.000 -		al.	WC	Warlan Cancer (SKO) Warlan Cancer (TOV)	(-3)		1
vg. Mass/base		305.25	Da			9	30.000				Jon.		1	1
The second Colors		70,20				100	20,000							
ength of entire g	gene	85	bases			8	10,000							
dass in Daltons		2.59E+04	Da	- number bases	x avg. mass/base	100s	0.000	alabata a	T-L-	To Table	· ·	_		
Mass in grams		4.31E-20	g	- mass in Da x m	ass of a Da in gra	ms	0.000	Control	5	20	10	20		
Mass in ug		4.31E-14	ug	- above / 10E-6					Talc Treatm	ent (ug/ml.72 hours				
dass in ng		4.31E-11	ng/copy	- above x 10E3					1 110000	I to a second				
			12.00							0		No. of Syline		CONTRACTOR OF THE PARTY
/2/2018 18:00			Ecological		Land Marie Units			NAME OF THE PARTY OF			Name of the last of			1.00
D	Sample	Copy#	ul cDNA used	copies/ul	ug RNA used	ul cDNA made	ug RNA/ul	copies/ug	Dilution	copies/ul	pg/ul RNA	Normalized/a	Average	SD
				cDNA	ug KNA used	ul cDNA made	cDNA	RNA	Factor	cDNA x DF	pg/ul RNA	tin	Average	SD
56	EL1 Unt 72 hr	7693.556	3.000	2564.519	0.5	20	0.025	102580.75	10.000	1025807.467	4.42E+01	43.049	42.953	0.154
		7644.539	3.000	2548.180	0.5	20	0.025	101927.19		1019271,867	4.39E+01	42.775		
		7690.931	3.000	2563.644	0.5	20	0.025	102545.75		1025457,467	4,42E+01	43.035		
57	EL1 5 ug/ml Talc	6645.312	3.000	2215.104	0.5	20				886041.600	3.82E+01	37.458	37.216	0.950
		6416.587	3.000	2138.862	0.5	20	0.025			855544.933	3.68E+01	36,169		
58	EL1 20 ug/ml Talc	6745.584 2591.377	3.000	2248.528 863.792	0,5	20	0.025	89941.12 34551.693	10.000	899411.200	3,87E+01	38.023	18.422	0.238
00	EL1 20 ogmi Taic	2552 923	3.000			20				345516.933	1.49E+01	18.672	18.422	0.238
		2525.657	3.000	850.974 841.886	0.5	20		34038.973 33675.427		340389,733	1.47E+01 1.45E+01	18.395	-	-
59	EL1 100 ug/ml Talc	796.114	3.000	265.371	0.5	20	0.025	10614,853		336754.267 106148.533	1.45E+01 4.57E+00	4.572	4.293	0.244
-	CC1 100 Ognii Taic	728.677	3.000	242.892	0.5	20		9715.6933		97156.933	4.57E+00 4.18E+00	4.572	4.233	U.299
		717.772	3.000	239.257	0.5	20		9570.2933		95702.933	4.18E+00 4.12E+00	4.122		1
83	Normal Ovarian Unt 72 hr	1554.313	3.000	518.104	0.5	20	0.025	20724.173		207241.733	8.93E+00	8.436	8.204	0.363
The system of	The Committee of the Co	1434.403	3.000	478.134	0.5	20				191253,733	8.24E+00	7.786	J.204	7.000
		1545.783	3.000	515.261	0.5	20		20610.44		206104.400	8.88E+00	8.390	100000	
84	5 ug/ml	1223.238	3.000	407.746	0.5	20	0.025	16309.84		163098.400	7.02E+00	6.691	7.132	0.396
		1325.729	3.000	441,910	0.5	20		17676.387		176763.867	7.61E+00	7.252		
		1362.924	3.000	454.308	0.5	20				181723.200	7.83E+00	7.455		
85	20 ug/ml	926,516	3.000	308.839	0.5	20	0.025			123535.413	5.32E+00	4.794	5.088	0.255
		1008.254	3.000	336.085	0.5	20	0.025	13443.387		134433.867	5.79E+00	5.217		
		1015.192	3.000	338,397	0.5	20		13535.893		135358.933	5.83E+00	5.253		1
86	100 ug/ml	392,144	3,000	130.715	0.5	20		5228.5867	10.000	52285.867	2.25E+00	2.252	2.277	0.094
		382.645	3.000	127.548	0.5	20	0.025	5101.9333	10.000	51019.333	2.20E+00	2.197		
AND DESIGNATION OF THE PARTY OF		414.496	3.000	138.165	0.5	20	0.025	5526.6133	10.000	55266.133	2.38E+00	2.380		
79	FT33 Unt 72 hr	2601.837	3.000	867,279	0.5	20		34691.16	10.000	346911.600	1.49E+01	8.828	9.491	0.579
		2873.845	3.000	957.948	0.5	20	0.025	38317.933		383179.333	1.65E+01	9.750		
		2916.453	3.000	972.151	0.5	20	0.025			388860.400	1.67E+01	9.895		
80	5 ug/ml Ta/c	1701.363	3.000	567.121	0.5	20	0.025	22684.84	10.000	226848.400	9.77E+00	4.838	5.244	0.377
Harbara Contract		1867.672	3.000	622.557	0.5	20	0.025	24902.293	10.000	249022.933	1.07E+01	5.311	The state of the state of	A CONTRACTOR OF STREET
		1962,982	3.000	654.327	0.5	20		26173.093		261730.933	1.13E+01	5.582		
81	20 ug/ml Talc	878.675	3.000	292.892	0.5	20	0.025			117156.667	5.05E+00	5.046	4.599	0.482
		711.834		237.278	0.5	20	0.025			94911.200	4.09E+00	4.088	-	
		811.926	3.000	270.642	0.5	20	0.025	10825.68		108256.800	4.66E+00	4.663		
82	100 ug/ml Talc	355.673	3.000	118.558	0.5	20 20	0.025	4742.3067	10.000	47423.067	2.04E+00	0.854	0.835	0.032
		332.350		110.783	0.5	20		4431.3333		44313.333	1.91E+00	0.798		
60	SKOV-3 Unt 72 hr	355.334 1454.313		118.445	0.5	20		4737.7867	10.000	47377.867	2.04E+00	0.854		
00	SKOV-3 OR 72 H	1434.403		484.771	0.5	20	0.025	19390.84		193908.400	8.35E+00	8.352	8.604	0.538
		1605.783	3.000	478.134 535.261	0.5	20	0.025			191253.733	8.24E+00	8.237	1	-
61	SKQV 5 ug/ml	1239.258		413.086	0.5	20	0.025	21410.44 16523.44		214104.400	9.22E+00	9.222	3.714	0.185
	3147.033111	1316.749		438,916	0.5	20 20	0.025			175566.533	7.12E+00 7.56E+00	3.738	3./14	U.100
		1368.982	3.000	456.327	0.5	20		18253.093		182530.933	7.86E+00	3.886		TO STORY OF THE PARTY OF THE PA
52	20 ug/ml	826.514		275.505	0.5	20	0.025	11020.18	10.000	110201.800	4.75E+00	3.396	4.022	0.546
		1038.125	3.000	346.042	0.5	20	0.025			138416.667	5.96E+00	4.266		
Water to the		1071.519	3.000	357.173	0.5	20	0.025	14286.92		142869.200	6.15E+00	4.403		
63	100 ug/ml	342.972		114.324	0,5	20	0.025	4572.96		45729.600	1.97E+00	0.847	0.768	0.210
		375.666	3.000	125,222	0.5	20	0.025	5008.88		50088.800	2.16E+00	0.928		
		214.756	3.000	71.585	0.5	20	0.025	2863.4133	10.000	28634.133	1.23E+00	0.530		
34	TOV112 Unt 72 hr	2305.857	3.000	768.619	0.5	20	0.025			307447.600	1.32E+01	10.536	11.945	1.576
		2549.829	3.000	849.943	0.5	20	0.025	33997.72	10.000	339977.200	1.46E+01	11,651		
~	70,4405	2986,582	3.000	995.527	0,5	20	0.025	39821.093		398210.933	1.72E+01	13.647		
85	TOV112 5 ug/ml Talc	1801.332	3.000	600.444	0.5	20	0.025			240177.600	1.03E+01	9.949	10.591	0.558
		1967.734	3,000	655.911	0.5	20		26236.453		262364.533	1.13E+01	10.868		
56	TOV112 20 ug/ml Talc	931.869		661.214	0.5	20	0.025			264485.600	1.14E+01	10.956	4.570	0.505
~	TOVITE 20 00mi Taic	727.118	3.000	310.623 242.373	0.5	20	0.025	12424.92 9694.9067		124249.200	5,35E+00	5.139	4.572	0.565
		828.458		276.153	0.5						4.18E+00	4.010	1	-
57	TOV112 100 ug/ml Talc	348.423		116.141	0.5	20 20	0.025	11046.107 4645.64		110461.067	4.76E+00	4.569	0.697	0.039
-	TOTTIE 100 Ognin raio	312.327	3.000	104.109	0.5	20	0.025	4164.36		46456.400 41643.600	2.00E+00 1.79E+00	0.740	0.097	0.039
201 Year 201		324.748		108.249	0.5	20		4329.9733				0.689		
19	A2780 5 ug/ml	2218.768	3.000	739,589	0.5	20		29583.573		43299.733 295835.733	1.86E+00 1.27E+01	5.220	5.345	0.237
	1.000	2209.117	3.000	736.372	0.5	20	0.025	29454.893		294548.933	1.27E+01	5.197	0.345	0.231
		2388.294		796.098	0.5	20		31843.924	10.000	318439.240	1.27E+01	5.619	1	-
0	20 ug/ml	1014.533	3.000	338.178	0.5	20		13527,107		135271.067	5.83E+00	3.401	3.601	0.175
	.	1095.239	3.000	365.080	0.5	20		14603.187		146031.867	6.29E+00	3.672	0.001	V.110
		1112.351		370.784	0.5	20		14831.347		148313.467	6.39E+00	3.729	-	
71	100 ug/ml	805.293	3.000	268.431	0.5	20	0.025	10737.24		107372 400	4.62E+00	2.315	2.267	0.215
		706.822		235.607	0.5	20				94242.933	4.06E+00	2.032	1	1
material research		853.694		284.565	0.5	20		11382.587	10.000	113825.867	4.90E+00	2.455		
95	A2780 unt	3162.386	3.000	1054.129	0.5	20	0.025	42165.147	10,000	421651.467	1.82E+01	7.226	6.706	0.474
SELVICE SHEET		2886.670		962.223	0.5	20		38488.933		384889.333		6.596	1.00	100
		2755.896		918.632	0.5	20		36745.28		367452.800		6.297		-

Case 3:16-md-02738-MAS-RLS Document 9738-1 Filed 05/07/19 Page 27 of 48 PageID: 40898
1/7/2018 protein extraction Samples 356~386 ELISA
- Cells were seeded on 1-3-18 at a density of 1.2 × 106 cells per 150mm dish
- treat with talc (10 mg/ml = 10^4 yg/ml) $<$ 1-4-18 100 mg talc + 10 ml DMSO \rightarrow mix
Johnson & Johnson, # 30027477, Lot # 13717RA)
$(7) \cdot (10^4 \text{ µg/ml}) = (5 \text{ ml}) (5 \text{ µg/ml}) \longrightarrow 7 = 2.5 \text{ µl}$ $(7) \cdot (10^4 \text{ µg/ml}) = (5 \text{ ml}) (20 \text{ µg/ml}) \longrightarrow 7 = 10 \text{ µl}$ $(7) \cdot (10^4 \text{ µg/ml}) = (5 \text{ ml}) (100 \text{ µg/ml}) \longrightarrow 7 = 50 \text{ µl}$
- Ofter 72 hours treatment, collect cells and medium for ELIST. · Collect media and place in labeled 15ml tube for freezing. · Then add comp PBS. · Using cell scrape, scrape the bottom of the dish and rotate. · Remove the PBS and cell misture and place into 15ml labeled tubes. · Contrifuge 18000g. 5min. 4°C. · Suck out PBS. Cells will be collected at the battom.
Place all tubes in -20°C freezer. Bio 1/6ion #106-100-1 10+# 211-1061
Bio Vsion #106-100-1 Lot 2115 1061 - Protein extraction · DX 14515 buffer diluted 1: 10 with dd ultrapure 150 · I tablet protense inhibita added Choche Diagnostics #11836153001) - or 200~20011 · Add (40011 1x 45is buffer to each tube (~1x103 cells) - incubated 30 min - Centrifuge 13000 rpm, 10min . 4°C
- transfer supernatent to new 1.5 ml tube = Protein (-80°c)

alls were contact in 1-2 is at a dansity of L2XIP BAS

Samples 356 to 386

11

Sample ID		Γ
356	EL1 Unt	
357	EL1 5 ug/ml Talc	
	EL1 20 ug/ml Talc	
	EL1 100 ug/ml Talc	
	SKOV-3 unt	
361	SKOV-3 5ug/ml	
	SKOV-3 20ug/ml	
	SKOV-3 100ug/ml	
	TOV112 Unt	
365	TOV112 5 ug/ml Talc	_
366	TOV112 20 ug/ml Talc	
367	TOV112 100 ug/ml Talc	
	A2780 Unt	
369	A2780 5 ug/ml	
	A2780 20 ug/ml	
	A2780 100 ug/ml	
	FT33 unt	
380	FT33 5ug/ml	
	T33 20 ug/ml	
	T33 100 ug/ml	7
	NOE unt	1
384	NOE 5 ug/ml Talc	1
	NOE 20 ug/ml Talc	1
	NOE 100 ug/ml Talc	1

for were buffert ditulated to with the all expense that

ended as contains to that I

Case 3:16-md-02738-MAS-RLS Document 9738-1 Filed 05/07/19 Page 29 of 48 PageID: 40900
1/8/2018 BCA protein detection Assay
1/8/2018 BCA protein detection Assay (Pierce out # 23225) - Samples ID see pg 54
· (24×3 + 3extra + 3blank) = 78 Samples Viells
Samples
· 200 M per Well = 200 M X 78 = 15600 M
1Ml Reagent B per 50Ml Reagent A 15600 = 312ML
· 15booml Reagent A + 312 ml Reagent B
-Assay - Add coul sample to 3 wells - Add coul of blank to 3 wells whatever you lysed your cells with)
- Add lour of blank to 3 wells whatever you goed your cells with)
- Add 200 of mix to each wells
-Mix, incubate at 37° 30 minuts X let plate to reach Room Jamp
- Read at 562 nm with spectrophotometer
G = CAT Parced do hay be Standard
— Stand Curve
Concentration (ug/ml) OD1 OD2 OD3 Average Avg 2000 0.5869 0.5848 0.5562 0.575967 0.4874 1500 0.4457 0.4211 0.3533 0.4334 0.344833 0.4000 0.3213 0.2774 0.2593 0.286 0.197433 0.2774 0.2593 0.2128 0.226667 0.1381 0.0750 0.181 0.1759 0.1713 0.176067 0.0875 0.250 0.1328 0.1252 0.1256 0.127867 0.0393 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.

.01	Concentration (1 00	Concolou			March Street,			
.0	Concentration (ug/ml)	OD1	OD2	OD3	Average	Avg			Stand	ard - 30 mi	n incuba	+:
-	2000	0.5869	0.5848	0.5562	0.575967	0.4874		de la	Jeanu	ai u - 30 iiii	III IIICUDA	uon
-	1500	0.4457	0.4211	0.3533	0.4334	0.344833		0.6	= 0.0002x - 0.	0165		
	1000	0.3213	0.2774	0.2593		0.197433	7	0.5	$R^2 = 0.9875$			
	750	0.2473	0.2199		0.226667	0.1381			N - 0.38/3		9	
	500	0.181	0.1759		0.176067		59	0.4				
	250	0.1328	0.1252		0.127867	0.0393		0.3		A		
	125	0.1105	0.112		0.111367							
	25	0.1004	0.0941	0.0953		0.008033	1	0.2	12.8	-		
	5	0.0845	0.0846		0.087733		1	0.1				
	0	0.0881	0.0884		0.088567	0	100		*			
							2	0	500			-
-								-0.1	500	1000 150	00 2000	2500
_										BSA (ug/ml)		
				-	THE STREET							

Compare results, with blank substracted. to the standard curve SAED000027(color)

C WINN COLE # 2420 C Y

Compare results, with Blanks Substracted, To the standard curve which has been previously determined

30 minute incubation					MIT TO BE STORY					
ID	0.04									Average
TOV-112-C	OD1	OD2	OD3	- blank 1	- blank 2		ug/ml 1	ug/ml 2	ug/ml 3	(mg/ml)
	0.2599	0.2418	0.223	0.1713	0.1532				754.6667	0.8475
TOV112-5 ug	0.3313	0.3057	0.2243	0.2427	0.2171	0.1357	1296.167	1168.167	761.1667	1.232167
TOV112- 20ug	0.1986	0.1784	0.1741	0.11	0.0898	0.0855	632.6667	531.6667	510.1667	0.520917
TOV112-100 ug	0.4219	0.3751	0.3853	0.3333	0.2865	0.2967	1749.167	1515.167	1566.167	1.540667
SKOV-3-C	0.5228	0.5485	0.4355	0.4342	0.4599	0.3469	2253.667	2382.167	1817.167	2.317917
SKOV-3-5 ug	0.3486	0.2963	0.2995	0.26	0.2077	0.2109	1382.667	1121.167	1137.167	1.129167
SKOV-3-20 ug	0.5041	0.5503	0.4834	0.4155	0.4617	0.3948	2160.167		2056.667	2.202667
SKOV-3-100 ug	0.5336	0.5384	0.511	0.445	0.4498		2307.667		2194.667	2.278
A2780-C	0.5125	0.5118	0.5274	0.4239	0.4232				2276.667	2.200417
A2780-5 ug	0.5112	0.5135	0.5888	0.4226	0.4249		2195.667		2583.667	2.201417
A2780-20 ug	0.5432	0.5026	0.517	0.4546	0.414		2355.667		2224.667	2.188667
A2780-100 ug	0.5229	0,4448	0.377	0.4343	0.3562		2254.167		1524.667	1.880833
Normal ovarian-C	0.3136	0.2745	0.2506	0.225	0.1859	0.162			892.6667	1.0375
Normal Ovarian-Talc 5 ug	0.4511	0.4449	0.4128	0.3625	0.3563				1703.667	1.821
Normal ovarian- Talc 20 ug	0.553	0.5402	0.5244	0.4644	0.4516		2404.667		2261.667	2.335667
Normal Ovarian-100 ug	0.4285	0.4308	0.4289	0.3399	0.3422	0.3403			1784.167	1.786667
Fallopian-C	0.3884	0.373	0.373	0.2998	0.2844	0.2844			1504.667	1.530333
Fallopian-5 ug	0.4075	0.4286	0.4376	0.3189	0.34	0.349		1782.667	1827.667	1.7625
Fallopian-20ug	0.6752	0.67	0.6842	0.5866	0.5814	0.5956		2989.667	3060.667	3.022
Fallopian-100 ug	0.2599	0.2418	0.223	0.1713	0.1532		939.1667		754.6667	0.8475
EL-1-C	0.5268	0.4749	0.4474	0.4382	0.3863	0.3588	2273.667	2014.167	1876,667	2.054833
EL-1-5 ug	0.269	0.2655	0.2811	0.1804	0.1769	0.1925	984.6667	967.1667	1045.167	0.999
EL-1-20 ug	0.5264	0.5212	0.5391	0.4378	0.4326	0.4505		2245.667	2335.167	2.284167
EL-1-100 ug	0.5438	0.5555	0.5387	0.4552	0.4669		2358.667	2417.167	2333.167	2.369667

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Cotalase ELESA Cayman chem. Cat # 707002 1/11/2018 Catalytic Activity 2H2O2 CAT > 02 +2H2O Peroxidatic Activity H202 + AH2 CAT > A+ 2H20 - Assay uses peroxidatic activity to determine enzymatic activity. The enzyme with methanol in presence of optima itsos The formaldehyde produced is measured colorimetrically with Purpald Preparation 0 - CAT assay buffer: dilute Int of buffer concentrate with 18ml HPLC-grade water · Store at 4°c, for 2 months 3 - CAT Sample buffer dilute 5ml buffer with 45ml HPLC-grade water · We to dilute the formaldehyde Standards. Contrd, samples · Store at 4°C, 2 months 3 - CAT Formaldehyde Standard The Vial contains 4:52 4.25 M formuldehyde · Ready to use @ - CAT (contrd) Add 2ml of diluted Sample Buffer Further delute by taking loom + 1.9ml sample buffer X: Only Stable for 3 ann A: Reconstituted CAT (control) is stable for one month at -200 5 - CAT Potassium Hydroxide Add 4 ml of 10 mm KOH.

· Stable 3 month at 4°C

57

SAED000029(color)

0 - CAT	Hydrog	en	Peroxide					
Dilule	4011	of	CAT	H2O2	with	9.96ml	of	HPLC-grade Hao
X. Stabl	e for	2	hours	IDIG	- 0.4			A CALLED A

Contains 4ml of purpod in 0.5m hydrochloric acid Ready to use 1 - CAT Purpaid

8 - CAT Potassium Periodele Contains 1.5ml of potassium Periodole in 0.5 M potassium hydro

- STANDARD

· Dilute 10,01 of CAT Formaldehyde Standard with 9.99ml of diluted Sample Bruffer to obtain a 4.25 mM formaldehyde Stock solution
· Label tubes A - G, add a coordingly

011	11	
Plote	Let	W

1 2 3 4 5 6 7 8 9 10 11 12
A AD 38
B B 39 0 39 0 0 30 0 0 0
C C 320 340 340 341 341
D D - 37
E (E) 360 - 1 323 - 1 356 - 1
F ED WO DE DO
G (2) 362 (-1) 382 (-1)
H + + 333

Tube	Formaldehyde (μl)	Sample Buffer (யி)	Fi (µ
A	0	1,000	
В	10	990	
С	30	970	
D	60	940	
E	90	910	
F	120	880	
G	150	850	

X Final Formaldohyde concentrat in the 170 ul reaction

A-G = Standards

+ = Positive control

51-5110 = Sumples Well

SAED000030(color)

- Parforming the Account
- Performing the Assay - Formaldehyde Standard Wells - Add 100 ML of diluted Assay Buffer, - 20 M of mothanol (Luber A-C)
- Formatie Myde Standard Wells - Add looml of diluted Assay Buffer,
THE WAY COMEST UT
20 M of standard Ctubes A - G)
- Positive Control Wells - Add 100 pl of diluted assay buffer
zoul of methand
1 2 11 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1
- Sample well Add noons of diluted Assay buffer
30 pl of methand
20 M of sample to two well
- Stard Reaction by adding 20 pl of deluted Hydrogen Peroxide X: Note start time . Wave fast · Cover plate, incubate on shaker 20 minutes. Room temperture - Add 30 pl of Potassium Hydroxble to each well to terminate Reaction add 30 pl CAT purpoid to each well · Cover plate . incubator for 10 minutes on shaker. Room temperture
- Add low CAT Potassium Periodale . Cover plate. Sminutes, Shaker. Room temp.
— Read the absorbance at 540
· Assay sensitive between 2~25 nmal/min/min/
· Assay sensitive between 2~35 nmol/min/ml · Catalone postive controls should give you absorbance ~0.29
calable postile controls should give you a psorpanie ~0.29

- Calculation

- Calculate the average ab sorbances of each standard and samples
- Subtract the average of ODstandard from itselfe and all other standard so
- Plot corrected absorbano of standards Cy-axis) US

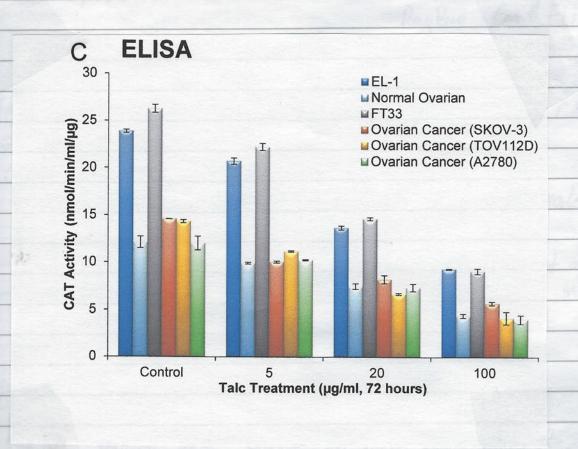
final formaldohyde commentration (um) from equation obtained form standard cur

Standard	OD 1 (540 nm)	OD 2 (540 nm)	Average	Corrected Av	Formaldehyde (uM)	0.8	y = 0.0085x - 0.0682	
4	0.1312	0.1502	0.1407	0	0		R ² = 0.9591	100
3	0.1863	0.1786	0.18245	-0.0584167	5	€ 0.6 -		-
3	0.2813	0.2705	0.2759	0.0350333	15	≥ 0.4 -		
	0.3882	0.4365	0.41235	0.1714833	30	8	-	•
	0.5317	0.6039	0.5678	0.3269333	45	<u>v</u> 0.2	-	
	0.5171	0.7139	0.6155	0.3746333	60	0 0	-	The same
3	0.903	0.8398	0.8714	0.6305333	75	-	20 40	60 80
Positive Control	0.858	0.7262	0.7921	0.5512333		-0.2		30 80
							Formaldehyde uM	

- Calculate the formaldohyde concentration of the samples using the equation obtained from the linear regression of the Standard Curve substituting corrected absorbance values for each samples

- Calculate the CAT activity of the sample using the following equations one unit is defined as the amount of enzyme will cause the formation of 1.0 nmol of formaldehyde per minute at 25°C

Case 3:1	6-md-02738-MAS-RLS Document 9738-1 Filed 05/07/19 Page 35 of 48 Page 36	ageID:
	1/11/2018 AAAAAAAA	
	BLANK A2780-C A2780-C A2780-5 ug A2780-100 ug FOV112-20 ug TOV112-5 ug TOV112-5 ug TOV112-100 ug Foliopian-5 ug Foliopian-100 ug EL-1-5 ug EL-1-5 ug EL-1-100 ug EL-1-100 ug	
	0D1 0.2598 0.3723 0.3562 0.3562 0.3562 0.2113 0.4022 0.2987 0.2111 0.3492 0.2111 0.3492 0.2987 0.2987 0.2987 0.2987 0.2987 0.2987 0.2987 0.2987 0.2987 0.2987 0.2987 0.2987	
	OD 2 0.2361 0.4053 0.4053 0.3855 0.211 0.4504 0.4504 0.4505 0.3762 0.27531 0.3988 0.4055 0.3982 0.27531 0.3988 0.4055 0.362 0.2144 0.4055 0.3762 0.2167 0.3988 0.4053 0.4055 0.3762 0.27531 0.3988 0.4053 0.4053 0.4053 0.4053 0.4055	
130	0D 3 0.2267 0 0.2267 0 0.3827 0 0.3827 0 0.3854 0.255 0 0.4411 0 0.3737 0 0.251 0 0.3444 0 0.28702 0 0.23111 0 0.6177 0 0.6222 0 0.4319 0 0.4322 0 0.251 0 0.252 0 0	
	Corr 1 0.240866667 0.1314333 0.1153333 -0.0255667 0.1453333 0.05783333 0.05783333 0.047093333 0.047093333 0.01255333 0.047093333 0.012553333 0.047093333 0.047093333 0.047093333 0.047093333 0.047093333 0.047093333 0.047093333	
	Com2 Com2 0.1644333 0.0446333 0.0446333 0.05579333 0.05579333 0.0628333 0.0628333 0.01052333 0.01066333 0.0488533 0.0488533 0.0488533 0.0488533 0.0578333 0.0578333 0.3821433 0.3821433 0.3821433 0.38233 0.4089333 0.1856333 0.388333	
	Corr3 Corr3 0.1418333 0.0448333 0.0448333 0.0048333 0.01526333 0.00291133 0.00291333 0.00291333 0.0097567 0.2097333 0.0097567 0.3768333 0.037683333 0.038133333 0.018133333 0.0461533 0.1037683333	
	uM 1 199.63333 199.63333 199.63333 125.133333 125.133333 125.1333333 126.03333 176.533333 176.633333 176.533333	
	uM 2 232.63333 232.63333 212.83333 114.33333 117.9.43333 277.73333 131.05333 173.4333 173.4333 173.4333 173.43	
	uM 3 210.03333 113.03333 113.03333 1171.73333333 277.933333 1771.733333 171.7333333 171.7333333 174.7333333 174.7333333 174.733333333333333333333333333333333333	
	nmol/min/mil 9.98 9.18 6.26 7.21 11.48 11.48 6.26 7.21 10.68 8.83 6.30 2.52 26.96 114.04 120.82 20.82 13.03 8.03	
+	nmol/mln/ml nmol/mln/ml nmol/mln/ml 9.98 11.63 10.50 9.18 10.64 9.09 11.48 10.52 9.62 5.13 1.92 2.62 11.48 13.89 13.90 10.56 8.97 8.81 10.74 10.55 8.56 10.96 6.31 2.25 10.78 10.18 10.74 10.57 8.81 10.08 10.68 11.64 11.04 10.59 2.86 2.92 2.52 2.86 2.92 2.52 2.86 2.92 2.53 2.82 2.92 2.54 2.83 2.2.25 2.52 2.86 2.92 2.53 22.22 2.24 2.54 8.33 22.22 2.5 2.83 22.32 2.5 2.84 22.32 2.5 2.83 22.32 2.4 2	
	2 ug protein used Average 11.07 9.13 9.13 5.95 2.27 13.89 6.88 4.13 11.16 8.75 8.75 8.75 8.75 13.61 10.13 5.21 2.43 11.16 13.61 13.61 10.13 5.21 2.43 11.16 8.75 8.75 8.75 8.75 8.75 8.75 8.75 13.89 8.89 6.88 4.13 11.16 8.75 8.75 8.75 8.75 12.86 8.75 13.92 7.81 24.00 20.57 12.86 8.06	
	Sed SD 0.80 0.80 0.06 0.43 0.49 0.011 0.46 0.42 0.68 0.42 0.42 0.42 0.42 0.42 0.42 0.42 0.42	



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1/17/2018

CA-125 ELISA

Ray Bio. Cat # ELH-CA125

- This assay employs an antibody specific for human CA-125 coaled on 96- well plate.

- CA125 present i'n sample i's bound to the wells

- Wash away unbound broting lated antibody, HRP-conjugated straptavidin is properted to the wells,

- Wash again, color develop in proportion the amount of CA-125 bound - Stop Solution, and measured at 450 nm

- Pre paration

- put all reagents and samples to room temperature (18-25°C).

- Assay Ditt Dilvent diluted 5-fold with distilled H20.

- Sample dilution: 1X assay Diluent use for dilution of serum Samples.

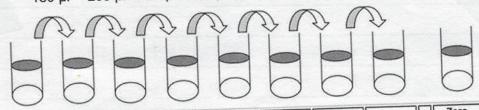
The Suggested dilution for normal serum/plasma is 2 fold

-X: levels of CA-125 may vary between different samples, Optimal dilution factors for each sample must be determined by

the investigator

- Preparation of Standard: Briefly spin a vial of Item C. add o Use the 400 U/ml Standard Solution to

produe a dilution series (See be low)
200 µ1 200 µ1 200 µ1 200 µ1 200 µ1



									Zero
		Std1	Std2	Std3	Std4	Std5	Std6	Std7	Standard
Diluent	Item C+ 400 ul	270 µl	400 µl	400 µl	400 µl	400 μΙ	400 µl	400 µl	400 µI SAED000035(col
Conc.	1,000	400 11/ml	133.3 U/ml	44.45 U/ml	14.81 U/ml	4.94 U/ml	1.65 U/ml	0.55 U/ml	0 U/ml

Case 3:16-md-02738-MAS-RLS	Document 9738-1	Filed 05/07/19	Page 38 of 48 PageID:
	40909		

- If the wash Concentrate (20x) contains Visible Crystals, warmt Room temperature and mix gently. · Dilute 20ml of Wash buffer Concentrate into desonized or distillated water to yield 400ml of 1x Wash Buffer

- Briefly spin the Detection Antibody vial before use.

· add loom of lx assay diluent into the vial to prepare a detect

X' Stored at 4°C for 5 days

- Briefly spin the HRP-Streptavidin concentrate vial and pipette up and down to mix gently.

· diluted 200-fold with 1x Assay Diluent

Assay Procedure

- Bring all reagents and samples to room temperature (18~25°C)
- Label remarable &- well strips as appropriate for you experiment
- Add would of each standard and sample into appropriate. Covor wells and incubate for 2.5 hours at room temp. gently she
- Discard the Solution and wash 4 times with 1x Solution.

 Wash with Zoom wash Buffer.

 Complete removal of liquid

 After the last wash, remove any remaining wash buffer by aspirating

- add loop of 1 x prepared biotinylated antibody

 Incubate for 1 hour at noom temperature, gently shaking
- Discard the solution, Respect the wash SAED000036(color)

- look of prepared Streptavidin Solution to each well
— Discard the solution. Repeat the wash
- Add 100pl of TMB One- Step Substrate Reagent
• Incubate 30 mins, room temperature in dark, gently shaking
- Add soul of stop Solution to each well.
- Read at 450 nm immediately.
-X. The minimum deledable dose of CA-125 was determined to be 0.61
-X Intra-Assay CV%: < 10%
Add 100 pl of TMB One-Step Substrate Reagent Incubate 30 mins, room temperature in dark, gently shaking Add 50 pl of Stop Solution to each well. - Read at 450 nm immediately. X. The minimum detectable close of CA-125 was determined to be as X Intra Assay CV% < 10% X. Inter - Assay CV% < 12% [calation of results calation of the mean absorbance for each set of duplicate standards, Contrado Samples and absorbance for each set of duplicate standards, Contrado Samples and absorbance for each set of duplicate standards optical density. [but the standard curve on lay-leg graph paper or using signal standard, with standard concentration on the x-axis and absorbance for each set of the standard curve on lay-leg graph paper or using signal to safetimare, with standard concentration on the x-axis and absorbance
- Calculation of recults
· Ca kulate the mean absorbance for each Set of duplicate Standards, Control
- and Samples and Subtroots the average zero standard optical density.
· Plot the standard curve on log-log graph paper or using sign
plot software, with standard concentration on the x-axis and absorbance on the y-axis
· Draw the best-fit straight line through the standard points
Assay diluent
OD=450nm

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SAED000037(color)

> CA-125 Concentration (U/m)

-Rocovery was determined by spiking various levels of CA-125 into the sample types listed below.

Sample Type	Average % Recovery	Range (%)
Serum	97.21	89-107
Plasma	76.88	68-85
Cell culture media	85.34	76-130

linearity

Sam	ole Type	Serum	Plasma	Cell Culture Medi		
1:2	Average % of Expected	110.0	130.2	135.9		
	Range (%)	99-118	119-138	125-142		
1:4	Average % of Expected	107.5	126.4	92.99		
	Range (%)	96-116	117-135	83-103		

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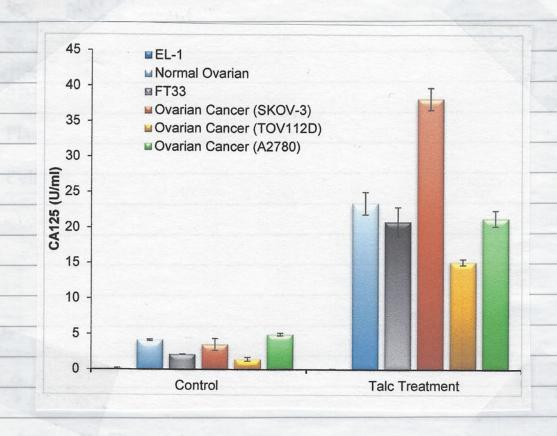
Plate set up

Talc Treatment: 100 mg/ml

Human CA-125 Standard curve

1/17/2018			Carrier Carrier						-	-	
Test media amounts for	r CA125 ELIS	SA .				0.4					
Standard (U/ml)	OD1 (450 nr	OD1.	Corrected OD1	Corrected OD2	Average	0.4 - (420 um)	y = 0.0065x R ² = 0.99				
400	2.3856	2.3921	2.31895			9 0.2					
133.3		1.1458	1.11585	1.07915		0.1 -					
44.45		0.358	0.29765	0.29135	0.2945	- ē .	**				
14.81	0.1593	0.1562	0.09265	0.08955	0.0911	Absort		-	1	-	
4.94		0.1009	0.03825	0.03425	0.03625	- 4 (10	20	30	40	50
1.65	0.082	0.0861	0.01535	0.01945	0.0174			CA125	(U/ml)		
0.55	0.0769	0.0776	0.01025	0.01095							
Blank	0.0661	0.0672	0.06665			A THE PARTY OF THE					

in Media	0.0799	0.0885	0.0811	0.01325	0.02185	0.01445	0.01205							/
	0.0,00	0.000							1		100000000000000000000000000000000000000	7		T
malaa	1004	long						Corrected for	Corrected for					4
						OD3	Media OD1	Media OD2	Media OD3	CA125 U/ml	CA125 U/ml	CA125 U/ml	Average	
V112	0.096			0.02935	0.02585	0.02725	0.0155	0.012	0.0134	1.769230769	1.230769231		9	2 6
V112+Talc	0.1849	0.1799	0.1843	0.11825	0.11325	0.11765	0.1044					15.35384615		
780	0.1179	0.1155	0.1172	0.05125	0.04885	0.05055				5 138461538	4 769230760	5.030769231	4 07040747	2
780+ Talc	0.2216	0.2312	0.2172	0.15495	0.16455			0.1507	0.1367	21 09230769	22 56023077	20.41538462	4.9/940/1/5	10
1	0.0854	0.0862	0.0851	0.01875					0.1007	0 139461539	0.264529462	20.415364621	21.35697436	5 1
1+ Talc	0.0779	0.0795				0.00.00				4.04520400	0.2015384621	0.092307692	0.16410256	+ 0
lopian	0.0988											1.953846154		
lopian + Talc	0.2112				-100100	0.00.00						2.153846154		
rmal Ovarian			-					0.155			23.23076923			
	0.1111	0.1124					0.0306	0.0319	0.0309	4.092307692	4.292307692	4.138461538	4.17435897	4 0
mal ovarian + Talc	0.222	0.234		0.15535	0.16735	0.18835	0.1415	0.1535	0.1745	21.15384615		26.23076923		
OV-3	0.1012	0.1103	0.1111	0.03455	0.04365	0.04445	0.0207	0.0298				4.092307692	3 54358074	1 6
OV3 +talc	0.3389	0.3211	0.3384	0.27225	0.25445	0.27175		0.2406		39.13846154		39.06153846		
	-						0.20	0.2700	0.2010	33.13040134	30.41	39.00103040	38.2	4



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Filed 05/07/19 Page 43 of 48 PageID: 2/20/2018 Cilutathione assay E Coupidan chemical (cot # 703002) 5-5G-E Grx CSH)2 + E-GS-SG-E - Grx -> Grx-52+E-GSH Grx-52 + 2GSH -> Grx-CSH/2 + GSSG assa + NADPH + H+ - Car) > 2 asH + NADP+ - This kit measure the amount of total glutathione CasH+assa) - GSH is easily oxidized to the disulfide dimer assa, assa is produced during the reduction of hydroperoxides by glutathione peroxidase - This kit can also be used to measure only assa GSSG Glutathione Reductase 2 GSH Glutathione Reductase GSTNB ash recycling Readent Preparation -asH MES Buffer (2x): 0.4M2-ethanesulphonic acid, 0.1M phosphate. 2mm EDTA Dilute Goml of buffor with 60ml of HPLC-water - assa standard: 2ml of 25 mm assa in MES buffer · Ready to use - ask co-Factor Mixture: a Lyophilized powder of NADP+ and glucose-6-phosphate · add 0.5 ml HPLC- Water - asH Enzyme Mixture: glutathione reductase and glucose-Ephosphote in 0.2ml By · add 2ml of diluted MES Buffer

- ast DTNB . a Gophilized powder of DTNB

Sample preparation:

- · Collect cells by centrifugation. 1000 ~ 2000 xg for 10 min. 4°C
 - · The cell pellot can be homogenized in 1-2ml of cold buffer.
 - · Centrifuge 10000xg, 15min, 4°C
 - · Remove the supernatant, store on ice

Assay protocol;

- place set up

1	1 2 3 4 5 6 7 8 9 10 11 12
	A A 323 356 7 360 7
	B B 324 357 367 367
	C (C) (3.8t) (3.58) (3.6)
	D D 386 1 39 0 343 0
	E (E) 377 -1 368 -1 364 -1
	F (F) 380 (7) 369 (7) 369 (7)
	G (a) 281 370 364 364
	H M A 332 A 37 A 37 A 37 A 37 A 37 A 37 A 3
L	Standards

Standard preparation

No

· Take eight clean test tubes

and mark them A-H
· Aliquot the assit standard

and MES buffer to each

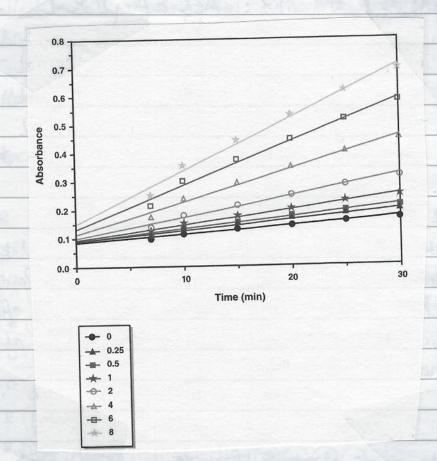
tube as described in tube.

		7	the state of the s	a N Harris
Tube	GSSG Standard (μl)	MES Buffer (μl)	Final Concentration (µM GSSG)	Equivalent Total GSH (μΜ)*
А	0	500	0	0
В	5	495	0.25	0.5
С	10	490	0.5	1.0
D	20	480	1.0	2.0
E	40	460	2.0	4.0
F	80	420	4.0	8.0
G	120	380	6.0	12.0
Н	160	340	8.0	16.0

Performing the Assay 1. Ald SOM Standard CA-H) 2. Add soul samples to each of sample wells 3. Cover the plate with the plate cover 4. Prepare the assay and mix: MES buffer 11.25ml Cofactor Mixture O-45ml Enzymo Mixture 2.1 ml Water 23 ml 5. Remove the plate cover and add 150, ul of freshly prepared Assay Cocktail to each of wells. · Replace the plate cove · Incubate the plate in the dark on an orbital shaker 6. ast concentration of samples determined by the End Point Method. · End point method: Read Plate at 405-414 nm after 25 moutes . Kinetic Method: Read the plate at 405-414nm at 5 minutes intervals for 30 minutes. Analysis 1. Calculate the average absorbance from 25 minutes for each standard and sample 2. Subtract the absorbane value of the Standard A from itself and all other 3. Plot the corrected absorbance values of each standard as a function of the concentration of assa or Total ast for each sample from the Standard curve Total asH or assa = Apos - y-intercept X2 X Sample dilution If sample required deproteination multiply by "2" to account for the addition of MPA Reagant

Kinetic Method

1. Plot the average obsorbine values of each standard and sample as a function of time and determine the slope for each curve



Plot of absorbance versus time to each standard

- 2. Plot the i-slopes of each standard as a function of concentration of assa
- 3. Calculate the values of assa for each sample from their respective slopes using the slope versus assa standard curve.

Total asH or assa (i-slope for sample) - y-intercept = (i-slope for sample) - x 2 x sample dilution X' Inter-assay coefficient of variation is 3.5%.
X' Inter-assay coefficient is 1.6%

tandard SSG uM	OD1	OD2	OD3	Average 0.240533333	Corrected		1.4 7		v=0	D.1472x + 0.0	769			1		
0	0.2398	0.2422	0.2396	0.240533333	0	-	1,4			R2 = 0.9806					9 3	
0.25	0.3139	0.3119	0.3532	0.326333333	0.0858	-	1.2			11 -0.5000				-	No. of Street, or other lands	
0.5	0.3769	0.3713	0.3738	0 374	0.133466667								/		- V	
1	0.4877	0.4856	0.4845	0.485933333	0.2454		1					-			3 1000	SCHOOL STATE
2	0.6801	0.6853	0.6807	0.682033333	0.4415	_	E 0.8									
4	0.9867	0.99	0.9868	0.987833333	0.7473		405				•					
6	1.2273	1.2338	1 2322	1 2311	0.000566667		4 0.6				-					
8	1.4006	1.4119	1.4267	1.413066667	1.172533333		0.6									
	45						0	1	2	3	4 5 GSSG uM	6	7	8	9	
										Victor and the						
							-									

		-					-	-	THE PARTY OF THE P		-	a significant
2/20/2018	using 30ug protein	-	-									
SAMPLE	OD1	OD2	OD3									a falled minutes
Normal		OUZ	1003	uM GSSG	uM GSSG	uM GSSG	DF	x DF x2 for deprot				
ovarian-C	0.9465	0.000	0.9107		The second second	S. D. T. C. W. C. S. C. C.		A Dr X2 for deprot	x DF x2 for deprot	x DF x2 for depro	Average	SD
Normal	0.0403	0.906.	0.910/	0.605966667	0.66576666	0.670166667	2.6984127	3 370305005				
Ovarian-Talc		2			Photo Carlo	The state of the s	2.0301127	3.270296296	3.593026455	3.616772487	3.604899	0.01679
5 ug	0.769	0.750	0.7945									0.0107
Normal	0.700	0.7602	0.7945	0.527466667	0.51966666	0.553966667	17.989418	3 945545500				
ovarian-							271303410	2.846645503	2.804550265	2.989661376	2.8802857	0.097032
Talc 20 ug	0.5931	0.500								- Ambreo Constantin		0.03703
Vormal	0,3931	0.589	0.5346	0.352566667	0.348466667	0.294066667	5.3968254					
Ovarian-100		45-36		The state of the last		100007	3.3300234	1.902740741	1.880613757	1.587026455	1.8916772	0.015646
piq	0.275											0.013040
allopian-C	0.375	0.3655	0.3628		0.124966667	0.122266667	6.3968254					
allopian-5	1.2553	1.2725	1.2698	1.014766667	1.031966667		7.3968254	0.725693122	0.67442328	0.659851852	0.7000582	0.036253
iq l	0.0000	2 2 3 2 2		different sections			7.3900234	5.476518519	5.569343915	5.554772487	5.5229312	
allopian-	0.9852	0.9655	0.9746	0.744666667	0.724966667	0.734066667	0.200000				3.3223312	0.065637
Oug				and the later and		0.754000007	8.3968254	4.018835979	3.912518519	3.96162963	3.9656772	0.075488
allopian-	0.7626	0.7666	0.7584	0.522066667	0.526066667	0.517866667				0150102503	3.9030772	0.075177
		Contract of	Secretary of the second	O COLUMN TO SERVICE STATE OF THE PARTY OF TH	0.02.000007	0.317866667	9.3968254	2.817502646	2.839089947	2.794835979	2.8282963	No. of Contract of
00 ug	0.4561	0.4121	0.4872	0.215566667	0.171566667	0.246666667				2.734033379	2.8282963	0.015264
		Email:			0.171300007	0.24000666/	10.3968254	1.163375661	0.925915344	1,331216931		
L-1-C	1.1861		1.2	0.945566667	0.857566667	0.0004666			0.02.0010044	1,331216931	1.0446455	0.1679098
L-1-5 ug	0.9011	0.8911	0.911	0.660566667	0.650566667	0.959466667	12.3968254	5.103058201	4.628137566	5.178074074		
L-1-20 ug	0.711	0.871	0.8812	0.470466667	0.630466667	0.670466667	13.3968254	3.564962963	3.510994709	3.618391534	4.8655979	01000013
L-1-100 ug	0.4555	0.544	0.511	0.214966667	0.303466667	0.640666667	14.3968254	2.539026455	3.402518519	3.457566138	3.5379788	
2700 0					0.505400007	0.270466667	15.3968254	1.160137566	1.637756614	1.459661376	2.9707725	0.610581
2780-C	1.366	1.411	1.366	1.125466667	1.170466667	4 - 00 - 1 - 1			2.03//30014	1.4596613/6	1.3989471	0.337727
2780-5 ug		1.1482	1.122	1.003466667	0.907666667		17.3968254	6.07394709	6.316804233	6.07394709		
2780-20	0.9551	0.8792	0.799	0.714566667	0.638666667	0.881466667	18.3968254	5.415534392	4.898518519		6.1953757	0.1717259
2780-100	A STATE OF THE STA			417 2 15 00 007	0.030000007	0.558466667	19.3968254	3.856391534	3.446772487	4.757121693	5.1570265	0.3655854
	0.5111	0.5514	0.6331	0.270566667	0.21000000		Total Control of the		3:440/7248/	3.01394709	3.651582	0.2896444
(OV-3-C		1.311			0.310866667	0.392566667	20.3968254	1.460201058	1.677693122	2		
OV-3-5				0.303100007	1.070466667	1.054466667	21.3968254	5.338359788	5.777121693		1.5689471	0.1537901
	1.0221	1.1087	1.098	0.781566667	0.000.				3.777121693	5.690772487	5.5577407	0.3102515
OV-3-20			2.030	0.701300007	0.868166667	0.857466667	22.3968254	4.217978836	4 505242045			
	0.8972	0.9112	0.799	0.656666667		The state of the s		11217710030	4.685343915	4.627597884	4.4516614	0.330477
OV-3-100			0.733	0.03000066/	0.670666667	0.558466667	23.3968254	3.543915344	2 540 4			
and the same of the	0.555	6112	0.599	0.2445555	Service Commence		A CONTRACTOR OF THE PARTY OF TH	0.010010044	3.619470899	3.01394709	3.5816931	0.0534258
V-112-C		1.226		0.314466667	0.370766667	0.358466667	24.3968254	1.697121693				
V112-5	ZIZOZ/	1.220	1.301	0.862166667	0.985466667		25.3968254	4.652962963	2.000962963	1.934582011	1.8490423	0.2148482
	0.8932	9033	0.004					4.032902963	5.318391534	5.723153439	4.9856772	0.4705291
V112-	0.0552	.3032	0.991	0.652666667	0.662666667	0.750466667	26.3968254	3.522328042				
ug	0.6671 0	5002	0 555				100.04	3.322328042	3.576296296	4.050137566	3.5493122	0.0381613
V112-100	0.0071 0	.5982	0.555	0.426566667	0.357666667	0.314466667	27.3968254	2 20210500				
	0.444	2007						2.30210582	1.93026455	1.697121693	2.1161852	0.2629315
	0.444 0	.3897 (3.3775	0.203466667	0.149166667	0.136966667	28.3968254	4 00000		The state of the s	7000	0.2023313
-						30007	20.0300234	1.098074074	0.805026455	0.739185185	0.9515503	0.207216

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Nitrate/Nitrite Assay Kit
(LDH method)

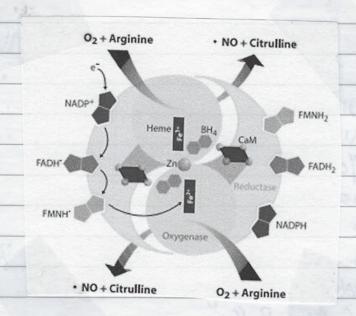
Cat # 760871

- Nitric Oxide (NO) is synthesized in biological systems by the Nitric Oxide Synthase (NOS)

-NOS is remarkably complex enzyme which acts on molecular oxyge

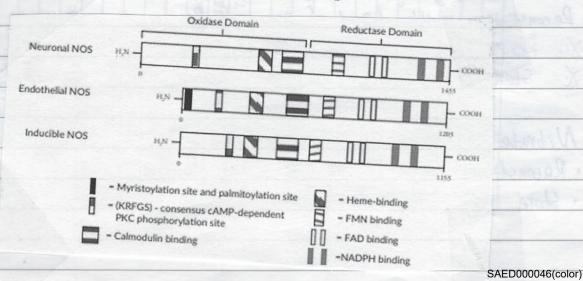
arginine, and NADPH to produce NO, Citrulline, and NADPT

- This process requires five additional cofactors and two divalent cations.



Nitric Oxide Synthesis

Nitric Oxide Synthose Isoforms



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